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HISTORY OF SANSKRIT LITERATURE

Vol. I-SRUTI (VEDIC) PERIOD

(circa 4000 to 800 B. C.)

IN FOUR SECTIONS

I SANHITĀS (c. 4000 TO 2000 B. C.)
II BRĀHMAŅAS (c. 3000 TO 2000 B. C.)
III VEDĀNGAS (c. 2000 TO 800 B. C.)
IV THE BHAGAVADGĪTĀ (c. 1200 B. C.)

★ BY

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IN RESPECTFUL ADMIRATION OF HIS HIGHNESS'
SINCERE LOVE AND PATRONAGE
OF LEARNING

PREFACE

While teaching History of Sanskrit Literature to students of the Tilak Mahavidyalaya of Poona, I found that the dates assigned by European scholars, Weber, Max Muller, Macdonell, Keith, Winternitz and others, to Sanskrit works, especially Vedic, were entirely different from those assigned by Indian scholars, like Tilak, Dikshit and Rajawade. It was, therefore, found absolutely necessary that a history of Sanskrit literature, at least of the Vedic portion of it, written from the Indian point of view should be placed before the world, embodying the arguments of these Indian scholars with such further arguments and data as could be brought forward from my study of Vedic works. The present volume is the outcome of this necessity as well as study.

There are other topics also, besides dates, on which European views differ from Indian, such as the development of social customs, the nature of Indian Aryan civilization and so on; and I have placed the Indian view on such matters in detail before the curious reader in this volume. There are differences of views on history also, especially on the history of the Indo-Aryan advance in India disclosed in the Rigveda. It must be acknowledged that the Rigveda has not been studied as deeply in this country as in Germany, France, England and America. This most ancient monument of Indian intellect has yet to be scrutinized carefully

by Indian scholars for purposes of history and sociology; and until this is done, it is not possible to give a finally correct view of the Indo-Aryan political and social history. No foreign scholar, however deep and intelligent his study may be, can form a correct estimate of the Indo-Aryan history and culture. It is a generally accepted maxim that a true history can only be written by one of those whose history it is. I have noted in this book several facts of this kind wherein European scholars have not been able to form a correct estimate. I may also add that many other facts have been noted in this book which can only interest us as the inheritors of the Indo-Aryan civilization and religion and which can not attract the attention of European scholars.

The history of Vedic literature naturally divides itself into three portions viz. that of Sanhitās, of Brāhmaṇas and of Vedāngas. For this reason, as also for convenience of printing (the printing being done in two presses), I have divided the work into sections with different paging for each and separate contents have also been prefixed. Further, besides the three natural sections of Sanhitās, Brāhmaṇas and Vedāngas a fourth section on the Bhagavadgītā has been added; for the Gītā, though not a part of Vedic literature, has to be included in this volume, being written, according to my view, in the Vedānga period. For the convenience of the reader, however, the index is prepared for the whole book giving reference to sectionas well as its page.

The map of Vedic India which has been appended at the end similarly gives information relating to all the three sections of the Vedic period, though it chiefly describes India as it was known to and conceived by Pāṇini. His grammar is a veritable mine of information, geographical and sociological, about India as explained at length in a note in Section III and in Chap. IV Sec. IV. I have taken special pains to collect this information and embody it in this book. The geographical information afforded by Pāṇini's sūtras and gaṇapātha is, however, too vast to be included in the map, and only such facts are noted therein, as are important and well ascertained.

As stated above, the book has been printed in two presses. The first and the fourth sections have been printed at the Aryabhūshan Press and the second and the third at the Arya-Samskriti Press, Poona. The types selected are, however, very similar and the size of the form and the paper used are the same. The reader will not, therefore, find any marked dissimilarity of printing. This division of the work of printing has enabled me to get the work through the press as speedily as was necessary at my age. Moreover, it was essential that the printing should be done under my supervision at Poona, so that any new idea suggested or matter brought to notice, as the printing proceeded, might be put in. Indian printing, however, leaves much to be desired and Imay admit and add that Indian writing and proofcorrecting also are not exact and thorough. Mistakes of spelling and even of expression will thus be found which the indulgent reader will excuse, looking to the matter and the thought. Slips of errata are put in each section, noting mistakes other than insignificant patent ones such as the omission or change of single letters,

Before concluding, I have to record my sincere thanks to the Government of Baroda for permitting me to dedicate this book to His Highness the Maharaja Sayajirao Saheb Gaikwad, the enlightened ruler of Baroda who has, during his long and successful regime, consistently and vigorously encouraged the spread of education in his State as also the study and publication of the ancient literature of this country. It may be noted that my first book "The Mahābhārata: a criticisim" has by permission, been inscribed to His Highness. I am extremely grateful to His Highness for giving a fitting donation also to this book to mark his appreciation of it.

Lastly, thanks are due to Mr. D. N. Apte, Pleader of Baroda, for first suggesting to me the writing of this book and to Mr. Nandnath K. Dikshit, Commissioner of Education Baroda, for the kind encouragement he has always given me.

Poona, 30th March 1930.

C. V. VAIDYA.

SECTION I—SANHITĀS

History of Sanskrit Literature.

ŚRUTI PERIOD.

SECTION I—SANHITĀS

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HISTORY OF

SANSKRIT LITERATURE

ŚRUTI PERIOD

SECTION I—SANHITĀS

INTRODUCTION

History of Sanskrit literature is a subject specially of European origin, born of European thought and European research. There is no work in Sanskrit of this kind and modern Indian mind was attracted to the study of the subject, only after European scholars, chiefly German, had written treatises on it. When Sir William Jones, H. T. Colebrooke and other English scholars of the eighteenth century made Europe acquainted with the ancient language of the Hindus and the inestimable literature in it, Schlegel and other German scholars fell to their study with avidity; and later on, when the scholars of Germany became acquainted with the Vedas, the most ancient works of the world, they studied them with a zeal and in a manner entirely their own, indeed as no other people of the west, not even the Hindus themselves, have yet done. They took up the study of the Vedas in the historical spirit and Roth brought out the first book on the Vedas in their historical aspect in 1838 A.D. Weber, however, is the first German Pandit who wrote a history of Sanskrit literature as a whole, which was translated into English in 1852. Max Müller next wrote a history of the ancient literature of India, Vedic and post-Vedic, in 1859. And the latest book on the whole subject, embodying the results of European research down to the end of the nineteenth century, is that of Dr. A. A. Macdonell, Professor of Sanskrit and Fellow of Balliol (Oxford).

The chief difficulty in giving a correct history of Sanskrit literature lies in the fact that most Sanskrit works, especially Vedic and post-Vedic, give no date for their composition, nor also the place of it. Time and place, it is well-known, are the essence of history, the two sides of its body, so to speak; and historians of Sanskrit literature have consequently to find out these from various arguments based on grounds noted further on. The most obvious reason of this non-mention of date in ancient Sanskrit works is that there was no era prevalent in India in pre-Christianera days. The first era we have in India is the Vikrama era of 57 B.C., originally called the Malava era; and the next noted era is that of the Sakas commencing with 78 A.D. The Traikūtaka (249 A.D.) and the Gupta (319 A. D.) eras followed in the 3rd and 4th centuries A. D. It seems probable that the Indo-Aryans got the idea of an era from their contact with

the Greeks in the days of Alexander and later, of Menander. The Indo-Aryans, no doubt, lacked the historical sense though they equalled the Greeks, nay even surpassed them, in intellectual vigour. Though they had the word Itihasa or history already and had works even then of a quasi-historical nature (see Kautilya's Arthasastra 1-5), they had no idea of true history and chronology. The Greeks, on the other hand, had their Olympic era and wrote good histories even in those ancient days. Thucydides wrote a history of the Peloponnesian war in 430 B. C. which is considered a model even for modern historians. The Indo-Aryans have left no work on history as such written in pre-Christian-era days, though they have left many works on philosophy, grammar and logic written in those days which are masterpieces in these subjects. The Indo-Aryans, it thus seems, took up the idea of an era from the Greeks and first started the Mālava era, an era named after a people, and next the Saka era also named after the Sakas or Saka kings generally and not any particular hero. The Buddha and the Mahāvīra eras, though named after these first preachers, probably came into use, not in the 5th century B. C., immediately after their deaths, but some centuries after the dates of their commence. ment, like the Christian era. Even if we grant that these eras were used from their beginnings, they were unorthodox and were not used by Sanskrit writers who were of the Vedic faith. And further, the whole of the Vedic and most of the post-Vedic literature

preceded Buddha and hence there was no era whatever then which could have been used in those works, even if the writers had wished to do so* Later Sanskrit writers never thought of arranging the previous Sanskrit literature chronologically, because the Vedas had already acquired the status of a revelation and it. was an item of Indo-Aryan religious belief that the Vedas were revealed at the beginning of creation.

We thus see why the Vedic and the post-Vedic literature contains no date, and why to arrange this literature chronologically is a difficult task. Divergence of opinion on this subject, as will be shown later on, was thus inevitable. It is natural to expect that writers of post-Vikram-era days would mention the dates of their writings and that there would be no difficulty in chronologically arranging them. Unfortunately, however, even here the same difficulty presents itself, though not to the same extent. These writers. probably following the ancient custom of mentioning no dates, give no dates in their works. Thus neither Kālidāsa nor Bhavabhūti, the two most prominent poets of classical Sanskrit, give any clue as to when or where they lived, prospered and wrote; and divergence of opinion consequently prevails among scholars on this subject also. While some place Kāli-

It is well-known that the theory of Yugas was definitely settled when the Sakas were ruling in Ujjain in the first century A. D. and that the Kaliyuga era though ostensibly counting from 3101 B. C. was never used, indeed was not known, before the 4th or 5th century A. D. or the days of Aryabhatta, the first noted Hindu astronomer.

dasa in the first century B. C., others place him in the fifth century A. D.; and while Bengal claims Kālidāsa as honouring it by his residence there, Kashmir and Malwa contest the honour with much reason. Bhavabhūti again is placed in the eighth century A. D. while popular tradition looks upon Kālidāsa and Bhavabhūti as contemporaries. There is one advantage, however, in this uncertainty of date and place, viz. that scholars study the works of these authors carefully and write learned papers, marshalling arguments one way or the other, based on references in these works to other works or to noted historical facts and personages, as also on their mention in other authors' works or in dated inscriptions or on social condition etc. depicted in them and so on. Thus research and deep study are strongly stimulated.

But there are other Sanskrit writers of this and even later period who consciously omit to give the dates of their writings in order that they may appear to be more ancient than they really are and even ascribe their authorship to persons of ancient fame. The various Purāṇas pre-eminently come under this description. They are ascribed to Vyāsa, itself a mythical name, and they are always first recited in Naimishāraṇya or the Naimisha forest (Oudh). Some writers again have purposely assumed the name of Kālidāsa or Varāha and a great deal of difficulty is experienced in finding out the true authoriship or the true date of their works.

From the 12th century onward, generally speak-

ing, Sanskrit writers usually mention the date and place of their writings and the difficulty above noticed does not confront the historian of Sanskrit literature in this third period and he has simply to collect the writings and arrange them chronologically from unquestioned dates.

German scholars, as stated above, studied the Vedic literature carefully and deeply and by their historical trend of mind laid the foundations of new sciences with the help of the Vedic language and literature, such as comparative philology and comparative mythology. They thus showed how the Hindus, the Persians, the Greeks, the Romans, the Celts, the Germans, the Scandinavians and the Russians were originally one people, the Aryans, and spoke one language from which the modern and ancient Aryan languages are descended. European scholars again deciphered and studied the epigraphic records of India and from them evolved its history of pre-Mahomedan times, facts from which largely assist the writer of a history of Sanskrit literature. The services of Bühler of Vienna and of Keilhorn of Göttingen in this field of Sanskrit scholarship and the unravelling of pre-Mahomedan Indian history will always be gratefully acknowledged.

But notwithstanding the wonderful acumen and the laborious research of European scholars, there is unfortunately one defect in their way of thinking, namely, their bias in favour of Greek civilization and their consequent inability to concede that the Indo-

Aryan civilization could be so much earlier than the Greek, as it claims to be. When later, Indian scholars began to study the subject, they, having no such bias, naturally doubted the truth of the European view of the antiquity of the Vedas as also of most part of the post-Vedic literature. They declined to believe that the utmost ancient date that could be assigned to the Rigveda was 1400 B. C. or that the Mahābhārata could be placed so late as the fifth century A. D. Men like Dr. R. G. Bhandarkar and S. P. Pandit first entered this field of study and these were followed by B. G. Tilak and S. B. Dixit whose labours have established a date for the Rigveda which goes so far back as 3000 B. C. at the least. They found out a new method of assigning dates, namely mathematical calculations based on astronomical data found in Vedic literature. It can not be doubted that arguments based on such mathematical calculations are almost unanswerable and it is, therefore, to be regretted that these arguments are not even noticed, much less refuted, by most European scholars and writers on the history of Sanskrit literature. We at least have not come across any substantial refutation of the theories of these authors as propounded in their works. B. G. Tilak wrote his 'Orion or the Antiquity of the Vedas' in 1893 and S. B. Dixit wrote his history of Indian Astronomy in Marathi in 1896. Tilak's work was criticised at the time of its publication and none but

Jacobi, who was independently coming to the same view on astronomical grounds about the same time, accepted his conclusions.

The chronology of the Vedic period, as also of the post-Vedic period, as settled on astronomical basis, thus differs extremely from the chronology given by most western scholars. Hence arises the necessity of presenting to the curious reader a history of Sanskrit literature written from this Indian point of view. The principal landmarks, based on astronomical data in the Indian Vedic and post-Vedic chronology are:

- (1) The date of some Rigvedic hymns (4500 B. C., Tilak), evidenced by the position of the vernal equinox in Orion (Mrigasīrsha), mentioned therein,
- (2) The date of the Satapatha Brāhmaṇa (3000 B. C., Dixit), evidenced by the mention therein of the rising of the Krittikās exactly in the east,
- (3) The date of the Maitrāyaṇīya Upanishad (1900 B.C., Tilak), evidenced by the mention of the autumnal equinox in the middle of Śravishṭhā or Delphini and
- (4) The date of Vedānga Jyotisha (1400 B. C., Tilak and Dixit), evidenced by the mention of its occurrence in the beginning of that Nakshatra.

The arguments for these dates will be noticed in detail in their respective places; but we give here the result as above reached by Tilak and Dixit.*

* There are some Indian scholars who differ from Tilak on the antiquity of the Vedas. While Mr. Pavgi of Poona goes far behind Tilak's date, Mr. Das of Calcutta believes in a still earlier date. These, however, ignore the Satpatha date. Western scholars assign to these, dates ranging from 1400 B. C. to 200 B. C. To this extreme divergence in the two views regarding the antiquity of the Vedas, may be added the difference of opinion regarding the dates of Pāṇini, of the present Mahābhārata and of Kālidāsa. While Indian opinion would put Pāṇini about 800 B. C., Mahābhārata about 250 B. C. and Kālidāsa about 50 B. C., Western scholars assign them to roughly 300 B. C., 400 A. D and 500 A. D. respectively. This will show to the reader at a glance how vastly different the Indian view of the history of Sanskrit literature is through almost the first half of its extent and how necessary it is that a history of Sanskrit literature should be written from the Indian view-point.

The determination of the date of Buddha's death about 480 B. C. and of the date of Chandragupta's rule about 300 B. C. assists the determination of post-Vedic and even Vedic chronology to a remarkable extent, as will appear later on. The discovery of the Arthasastra of Kautilya, alias Chāṇakya, minister of Chandragupta, in recent years has also dispelled the unfavourable views of many European scholars regarding the antiquity of the Indo-Aryan civilization.

THREE PERIODS.

Macdonell divides the history of Sanskrit lilterature into two periods, the Vedic period and the Sanskrit period. But it is more proper to divide the history into three periods, the Sruti period, the Smriti period

and the Bhashva period, as we propose to call them. The language of the Vedic literature can be given other name than Sanskrit. The Indo-Arvans. brought with them into the Panjab a branch of the language of the ancient Aryan people which may properly be called, by distinction, Sanskrit. This. name no doubt arose later when the Prakrits came into being, by way of opposition, meaning the language of the refined people, as opposed to Prakrit, the language of the common people. But that name has to be carried back to the Vedic times. If Sanskrit is a name which is to be confined to the language of Patanjali's days, Vedic literature cannot come within the range of a history of Sanskrit literature. We may call the Vedic language Vedic Sanskrit, the language of the days of Panini post-Vedic Sanskrit, the language of the days of Patanjali classical Sanskrit and the language of the days of Sankarāchārya and after, modern Sanskrit. The language is the same throughout this length of time, though it has different aspects in these four, rather three, periods, just as English has been divided into old English, Elizabethan English and modern English. It is needless to state that the identity of a language continues so long as its grammar remains practically the same.

The Vedic people actually spoke this Sanskrit language in the form it then had and the Vedic singers did not use an artificial language for their poetry as is sometimes supposed. There was, in the beginning, no Sūdra caste, the Aryans being homogeneous; the

cultivators, the warriors and the priests, being of the same Aryan race, were of the same mental and physical capacities. There was then a slight difference between the spoken language of the common people: and that of the higher class people, such as exists in. every country and at every time. The language of the Vedic common people must, however, still be called Vedic Sanskrit; and it is interesting to find that when the Aryans migrated to the Deccan, they carried words of this Vedic Sanskrit, some of which still survive in the language of the common people of the Deccau. The pronoun 'tyo', used by common people, instead of to used by higher classes in Mahārāshtra, is a survival of the 'tyas' of Vedic times. In short. Vedic Sanskrit was a spoken language as well as post-Vedic Sanskrit of the days of Pānini. The language had changed visibly by this time; but it was still the same language and Pānini gives no separate grammar for Vedic Sanskrit, but simply marks certain peculiarities of the language as used in the hymns. He always makes the simple distinction $bh\bar{a}sh\bar{a}y\bar{a}m$ and chhandasi where there are differences. The word bhāshāyam used by Pānini clearly proves that it was a spoken language of which he wrote the grammarand that the name Sanskrit had not yet arisen, norof course, Prakrit. Pāṇini belongs to the Panjab and the Aryan people there were still homogeneous though the Sudra class had long been introduced. The Arvans had, however, spread into the eastern parts of India where the Sūdra population was numer-

ous and had formed certain peculiarities of speech which Pānini distinguishes as those of the eastern people (Prāchām). But when, after Pānini, the Aryan centre of civilization moved down to the Gangetic valley and further still into the Deccan before the days of Patanjali, the Sūdra class was completely incorporated in the Aryan community and was predominant. Indeed the Aryans, still observing the Panjab rule of marrying into lower castes, married Sūdra wives to a far greater extent here than they had done in the Panjab. The result was that common people and women of even the three higher castes began to speak the Sanskrit language by softening its hard letters and its hard forms. The capacity of the common people and the women had deteriorated owing to the great mixture of blood which manifests itself even now, the people of U. P. and of Mahārāshtra and Gujarat being distinctly Aryo-Dravidian as found at the census of 1901, while the people of the Panjab are still distinctly Arvan. led to the rise of what are known as Prakrit languages and the name Sanskrit as opposed to Prakrit. The Prakrits of the different provinces, owing to provincial peculiarities, had distinctive names assigned to them from the names of the provinces where they were spoken. There were thus four principal Prakrits; 1 Māgadhī (of Magadha and Bengal), 2 Saurasenī of U. P., Rajaputana, Malwa and Gujarat (from Surasena, the middle country of Mathura), 3 Mahārāshtri from Mahārāshtra or Deccan and

4 Paisāchī, from the country of Pišāchas to the north of the Panjab. It is strange that Macdonell looks upon Mahārāshṭrī as a sub-division of Saurasenī and as the language of eastern Rajastan (p. 27). Indeed the information given here seems to be incomplete, Apabhransas being later forms of these Prakrits and Paisāchī being omitted. Mahārāshṭrī was the most important of these Prakrits and Vararuchi in his grammar of the Prakrit languages (Prākrita-Prakāśa) gives the grammar of Mahārāshṭrī as the principal Prakrit and notices only the variations of the others.

Thus in this second period, Sanskrit remained as the spoken language of the higher class males only, while all women and the lower classes spoke the Prakrits. Buddha preached to the common people in Pālī, another Prakrit, probably an earlier form of Māgadhī not noticed by Vararuchi who wrote his grammar two or three centuries after Buddha. Sanskrit spoken by the higher class males was of course understood by the women and the lower class people; for the Prakrits were merely Sanskrit softened and not different languages altogether with different grammars and vocabularies. Sanskrit was, therefore, a spoken language in this period also and, being spoken by the higher class males, it attained a fixed refined form and excellence and it may, therefore, be fitly called classical Sanskrit. This naturally led to a distinctive character in the literature of this period.

The Prakrits were used, Pālī and Māgadhī by the Buddhists and Mahārāshṭrī and Ardha-Māgadhī by the

Jains. for their canonical writings for the first two or three centuries. But the necessity of writing philosophical and scientific treatises as also of controversy with the othodox Hindus who used classical Sanskrit for speech and writing, led the Buddhists and Jains to use later on Sanskrit in their writings. Especially Mahayana Buddhism which separated from the old Hīnayāna, under Nāgārjuna in the days of Kanishka in the first or second century A. D., used Sanskrit for its exposition and preaching. We thus have Buddhist and Jain literatures of a high order in this second period, both of them using Nyāya or Logic, the orthodox weapon, in disputations. This second period of classical Sanskrit which commenced from before Buddha i. e. from about 800 B. C. ended in about 800 A. D., when Buddhism was finally destroyed in India by the labours of Kumārila and Sankarāchārya.

For, this same event led to the rise of the modern vernaculars of India at this time. Their relation to Sanskrit is exactly the same as that of the modern Romance languages to Latin which they supplanted. The modern vernaculars have a different grammar from that of Sanskrit and are not inflexional but analytical. Unlike the ancient Prakrits, the modern Prakrits or vernaculars are, therefore, different languages and from their rise we may date the death of Sanskrit as a spoken language. Sanskrit is no doubt used even now for writing by pandits but very few can speak it. It is only the pandits of Tamil, Telugu and Kanarese parts of India that can speak Sanskrit fluently

enough. But even these, in speaking, ordinarily use their vernaculars; indeed even in learned disputations they speak in their vernaculars, when they wish to express their thoughts definitely and clearly. From about 800 A. D., thus, Sanskrit may be looked upon as a dead language and all the literature in it that was produced after 800 A. D. is decidedly in a dead language which, therefore, strikes us as artificial. Thus writers of this period do not use the conjugational forms of verbs which do not come to them easily and use instead participles with asti, karoti &c. to finish off. Independent thinking also ceased in this period. The Sruti literature being looked upon as revelation and therefore sacred and the Smriti literature of the second period as quasi-sacred and the last word, so to speak, in every department of knowledge, the pandits of the third period chiefly wrote commentaries and Bhashyas on these ancient sacred and quasi-sacred works. This distinctive character is stamped on all the works which were written in this period; whether they be on sacred or profane subjects, whether on religon, philosophy or science. It is hence befitting that this third period commencing with Sankarāchārya (800 A. D.) and coming down to the Veda-Bhāshya of Sayana in about 1400 A. D. should be called the Bhāshya period. Individual writers like Sankara display high intelligence and vigour of thought and lucidity of expression; but these are directed only towards interpreting old texts or engrafting their own new theories on old texts. Even Vijnanesvara (c. 1100

A.D.), chief minister of a Chālukya king in the Deccancould give law in its finished form only by writing his famous commentary, the Mitāksharā, on the Yājnavalkya Smṛiti. The single exception of the Jain Paṇḍit Hemachandra, who wrote in this period an original grammar of Sanskrit defying Pāṇini, only proves the general character of the literature of this period.

The Mahomedans conquered the Panjab about 1000 A.D. and Northern India about 1200 A.D. Under Hindu rule in these provinces, before the Mahomedan conquest, government records were kept in the Sanskrit language, all the kingdoms being ruled by orthodox Hindu kings. Their orders and sanads were issued in Sanskrit, though Sanskrit was a dead language and many treatises on various subjects were written by pandits, chiefly on law for the use of law-courts. Alankara or poetics is the only subject on which original treatises were written, based on classical epics and dramas. The Mahomedans conquered the Deccan in about 1300 A.D. and the South in 1500 A.D. Vijayanagar, the last Hindu kingdom, produced the well-known Bhāshya of Sāyana on the Vedas. After the Mahomedan conquest in these several provinces, the writing of Sanskrit works practically ceased, though even in Mahomedan times a few treatises, here and there, were written which deserve to be noticed in a history of Sanskrit literature like the Rasa-Gangadhara of Jagannatha. These being of the same nature as the works of the preceding period may be included in it.

For these reasons, therefore, it would be appropriate to divide the history of Sanskrit literature into three periods; viz., the Vedic and post-Vedic period (c. 4500 B. C. to 800 B. C.) to be called the Sruti period, the classical period (c. 800 B. C. to 800 A. D.) to be called the Smriti period and the modern period (c. 800 to 1500 A. D.) to be called the Bhāshya period. In the first period, Sanskrit was spoken by all people who were chiefly of the Aryan race; in the second, it was spoken by the high class males while their women and lower classes spoke the ancient Prakrits which were only softened Sanskrit; and in the third period Sanskrit was dead as a spoken language. Naturally the literatures of the three periods differ in language easy and simple in the first, polished and refined in the second and artificial and pedantic in the third. Then again in the first period, literature is chiefly religious and philosophical and at once became sacred. In the second period literature is highly thoughtful and has become quasi-sacred or authoritative, where not religious, and in the third period literature becomes scholastic though usually full of powerful reasoning and forceful expression.

That this vast literature extending from about 4500 B.C. to 1500 A.D. or over nearly 6000 years is valuable and of unique importance is conceded on all hands. The Vedic hymns, at least three thousand years old if not six, display poetical thought and ex-

pression of a high order and they have supplied thinkers with materials for laying the foundation of two sciences viz., Philology and Comparative Mythology. They again supply us with several facts for constructing a history of the common civilization of the great Aryan race. The Upanishad philosophy again rises to the highest point of metaphysical speculation to which human mind can rise. pounding the most abstruse topics of philosophy, their prose rises to the highest pitch of oratory. Their preaching is so charmingly transcendental that the German pandit Schopenhaur was impelled to exclaim, "O Upanishads! you will be the solace of my life and the solace of my death." Pānini's grammar and Yāska's etymology of the post-Vedic period are the most critical works human minds have produced on these subjects.* In the second period were compiled the Mahābhārata and the Rāmāyana, two epics which surpass in beauty as well as in length every other epic in the whole world. The Indo-Aryans in this period also thought out the problems of logic and metaphysics with an acumen always equal to. if not higher than, that of the Greeks or of modern thinkers of the west. In the third period the Indo-Aryan genius developed these subjects with greater fineness of intellect and particularly Alankana or poetics was both started and developed in this period

^{*} Dr. MacDonell remarks that in grammar the results attained by the Indians in the systematic analysis of language surpass those arrived at by any other nation (p. 39).

with minute insight into the workings of the human heart and rare appreciation of the beauties of thought and expression.

It is sometimes said that the Indo-Aryans were not able to handle the physical sciences. They undoubtedly cultivated mathematics (arithtmetic, algebra and even geometry); indeed it is the Indo-Aryans who gave the decimal system to the world. They were ahead in the study of astronomy and in the second period, with the help of Greek astronomy, they formulated Siddhantas which were taken by the Arabs to the west. One great astronomer even propounded the theory of the moving of the earth round the sun seven hundred years before Copernicus discovered the solar system. In medicine again, the Indo-Aryans may be looked upon as the teachers of the ancient medical world. They were already on the path of studying chemistry but their progress was checked by the rise of Alchemy and the idea of Rasayana or the elixir of life. The one subject on which they have left no works fit to be admired is, as stated before, history.

THE SRUTI PERIOD.

I GENERAL SURVEY.

The literature of the Sruti or Vedic period naturally divides itself into two portions, the Vedas and the Vedāngas. Vedas again fall under two main heads, the Sanhitas and the Brahmanas. Both these together, according to the orthodox view, form the revelation or Sruti of the Hindu religion. Dayananda, founder of Arya Samaj, who was a great Vedic scholar, denied the Sruti character of the Brāhmaņas. These Brāhmaņas are explanatory treatises attached to the Sanhitas, composed by the Rishis themselves or their immediate successors. Rishis may be defined as the 'composers' or "seers" of Vedic hymns. They are sometimes called Mantrakrit or composers of Mantras and sometimes, especially in later times, "Mantradrashtris" or seers of Vedic hymns, i. e. these hymns are looked upon. as seen by the Rishis, in other words, as revealed. This sort of sanctity attaches to the original word preached in every religion and we need not wonder that the Vedic Sanhitas attained this sacred character at a very ancient date, indeed even in the days of

the Brāhmaṇas themselves. Later literature looked upon the Brāhmaṇas also as revealed and the orthodox dictum now is that Veda is the name applied to both Mantra and Brāhmaṇa i. e. hymns and their explanations (मंत्रबाह्मणयोर्वे द्वानेध्यम्). The Brāhmaṇas though unquestionably later than the hymns, as their language indicates, are also very ancient and they may appropriately be treated as belonging to the Veda portion of Sanskrit literature as they contain explanatory notes on the hymns given by ancient sages.

The Vedas are four in number, Rigveda, Yajurveda, Sāmaveda, and Atharvaveda. Rigveda is unquestionably the oldest of these, that is to say, it contains hymns which are the oldest. Yajurveda contains hymns as well as directions for sacrifices while Samaveda contains hymns which are to be sung. The Rigvedic hymns are of various nature and not always prayers to gods, nor prayers addressed to the god to whom a sacrifice is being offered. The assignment of Rigvedic verses to sacrificial or religious purposes, in other words, their 'viniyoga' is a later affair as we shall see further on. Rigvedic verses are essentially the utterances of the Vedic sages on various topics put in the form of poetry—poetry which is admired even by western "This lyrical poetry", Prof. MacDonell scholars. observes, "far older than the literary monuments of any other branch of the Indo-European family, is already distinguished by refinement and beauty of thought, as well as skill in the handling of language

and metre" (p. 29). Rik i. e. verse or hymn is distinct from and earlier than Yajus or sacrificial formula, though sacrifice or throwing oblations into fire in propitiation of deities is a form of worship which is common to all ancient people and goes back to pre-historic times. Again singing is natural to man even in primitive ages and devotional singing occurs earlier than singing for love. Certain Riks were, therefore, soon set to singing and they are called the Samani or good verses. These Samans were sung at sacrifices or at the pressing of the Soma juice, a libation which was peculiar to the Indo-Aryans in their home beyond the Panjab. These three viz. the Rik, the Saman and the Yajus are the oldest divisions of the religious utterances of the Indo-Aryans and they are mentioned in the Purusha-Sūkta, itself a Rigvedic hymn, and in this order. The Vedas were thus originally three and they together were called the Trayi Vidya. Veda itself means branch of knowledge or source of knowledge and is a word at least as old as the Brahmanas. And in one place in the Rigveda itself, as shown later on, it is used as meaing sacred word though not the collections of these three forms of utterances, Rik, Saman and Yajus made at some later time and called Sanhitās.

The fourth Veda is the Atharva Veda, recognised as Veda later but before the close of the Brāhmaṇa period. It contains some hymns as old as the Rig-vedic hymns, while others are evidently of later date, both from language and matter. The name Atharvan

is, however, very old and also belongs to the Iranian people in the form Athravan. The Iranian priests were adepts in magic and used incantations. The Atharva Veda contains mostly verses used for magical purposes as also some verses used for the usual purpose, viz. sacrifice, of the other three Vedas. Its Sanhitā seems to have been put together later as will be shown when we shall speak about it.

Brāhmanas or explanatory works grew round each of the three Vedas as also later round the Each Veda has certain Brahmanas attached to it. These Brahmanas are later works and are in prose, the language of which differs to a considerable extent from that of the Sanhitas. Their latest additions are the Aranyakas or theosophical works to be recited in forests and the Upanishads or philosophical compositions made from time to time. Each Veda has thus an Aranvaka and serveral Upanishads attached to it. As stated above, this whole Brahmana literature is considered by the orthodox as sacred and 'Apaurusheya' or not man-made and therefore of equal authority with Mantra and consequently was included in the term Veda. Later still came the Vedangas or auxiliary works, appendices so to speak, of the Vedas. They are six in number viz., 1 Chhandas or Metre, 2 Jyotisha or astronomy, 3 Kalpa or ritual, 4 Sikshā or rules of pronunciation, 5 Nirukta or etymology and 6 Vyākaraņa or grammar. are certain works alone on these subjects which are considered to be sacred works, though not of the

same sanctity as Veda, and are learnt by heart by Vaidika Brahmins along with Sanhitā and Brahmana. Their writers are called not Rishis but Acharyas. Most of them fall within the Sruti period as we have defined it, for they were composed at a time when the Vedic language, though out of use, was still understood. But as it had begun to be unintelligible, it was found necessary to write works on the prosody of Vedic hymns and the method of reciting them and soon when the Vedic accents had gone out of use, different schools sprang up which pronounced accents in the hymns and even the Brahmanas differently. These had their different Prātiśākhyas or rules of pronunciation sanctioned by each Śākhā or school. Ceremonial had also begun to differ and hence the necessity for works on ritual also. Sacrifices had again to be performed at particular times and hence astronomy had to be studied and tithis had to be calculated. This branch of study was, therefore, necessary for Vedic sacrificers and required a manual. Lastly the study of grammar and vocabulary of the Vedic language which was going out of use, was a prime necessity and these two subjects were zealously studied for centuries the result of which are two unique works, viz. Panini's grammar and Yāska's Nirukta which have supplanted all works of previous teachers on the subjects and have become the authoritative Vedangas on them. Having taken this general survey of the literature of the Sruti period, we proceed to describe in detail each work commencing with the Rigveda Sanhita.

THE EXTENT OF THE SRUTI PERIOD.

The hymns of the Rigveda clearly appear to have been composed at different times. There are old and new hymns mentioned even in some of the hymns themselves. Many old hymns are declared to have been lost and Vedic poets often say that they fashion new hymns after the model of the old. The language of old hymns again differs to an appreciable extent from the language of later hymns, especially of the hymns of the tenth Mandala. We have thus to consider the question over what period must these hymns have been composed. Their collection together in the present Samhita text is altogether a different matter; for the date of such collection must be distinct from the date of the composition of the hymns themselves. The date of this collection has, however, also to be determined along with the period of the composition of the hymns, for it will supply the lowest limit of the latter date.

Most European scholars hold that the Rigredic hymns must have been composed from about 1500 to 1000 B. C. Dr. Macdonell thinks that the first collection which was again edited about 600 B. C. after making phonetic changes or Sandhis sanctioned by classical Sanskrit (p. 50) comes from a period which can hardly be less remote than 1000 B. C. (p. 48). Max Müller first assigned these dates from a consideration of the linguistic changes discernible in the

language of the oldest hymns and the language of Pānini. He thought that there were thus several linguistic layers, so to speak, discernible through the Vedic literature and each layer might be assigned a period of about 200 years. Fixing the date of Pāṇini at 300 B.C. he assigned about 1500 B.C. as the probable date of the oldest Rigvedic hymns. As some of these hymns exactly correspond with some Gathas of the Iranian Avesta, it is also thought that the Iranian Aryans and the Indo-Aryans separated about this period and the bulk of the Rigvedic hymns was composed thereafter in the Panjab. According to most western scholars, thus, the age of the Rigvedic hymns extends from about 1500 to 1000 B. C. Ofcourse these are not exact dates but approximate estimates by centuries.

Many Indian scholars, on the other hand, led by Bal Gangadhar Tilak assign a far different period to the composition of the Rigvedic hymns, based on a far more reliable argument than that of language. Mathematical calculations made on the basis of astronomical facts, furnished by some hymns, are more definite and reliable and consequently yield dates which are practically unassailable. What these astronomical facts are and how they can be made the basis of mathematical calculation, we proceed to show in detail.

The rising and setting of the sun give us our lowest measure of time viz., day and night, while the full and new moons give us the dark and bright fort-

nights, together forming a month, our next measure. Day and night together forming a diurnal day, we have approximately 30 days to the month. seasons caused by the progress of the sun southwards and northwards have given us the year, our third measure of time and there are approximately 12 lunar months in a solar year. These measures of time must have struck even the primitive man and they are often poetically mentioned in Rigvedic hymns such as the year with its 360 days "the wheel with its 360 knobs". The ancients had, however, no measure of time for longer periods; for there is no corresponding astronomical phenomenon so easily marked. It will be remembered that the modern eras have no astronomical basis. The Vedic literature mentions centuries or hundreds of autumns (Saradam Satam) and some Brāhmanas also mention Yugas, human and divine (mānusha and daiva); but their lengths were not fixed. The Yuga system of later Hindu astronomers is based on a fictitious astronomical phenomenon viz., the starting together of all the planets from the same point in the heavens at the beginning of creation. These facts we mention to explain why thereare no chronological data in the Rigvedic hymns. (Even if the planets had been known with their revolutions these could only have given periods of 12 and 30 years only.)

The precession of the equinoxes is an astronomical phenomenon discovered about the beginning of the Christian era which can give us a long astro-

nomical cycle of years to measure longer periods than centuries. The Vasanta-sampata or vernal equinox makes a revolution of the whole ecliptic in about 26000 years and its progress through the Nakshatras or Rāshis will give us smaller measures. The vernal equinox is a point which can be marked by even unintelligent people, though its precession can not be marked so easily, as in the Northern hemisphere it marks the opening of the spring season. In higher latitudes where the sun remains below the horizon for some months, it marks the coming up of the sun above the horizon. Even in the Panjab it could be marked by the ripening of the crops. The Indo-Aryan sages undoubtedly carefully watched the stars and the progress of the moon through them. also marked the progress of the sun southernmost point to the northernmost and exactly fixed the eastern direction by the middle point of this course. We know that the Egyptain pyramids built 3 or 4 thousand years before Christ have corners facing exactly the four directions. It is no wonder then that the Indo-Aryans in ancient days could fix the directions exactly and knew the Visuvan day. marking the progress of the sun southwards and northwards, they marked the winter solstice, the vernal equinox, the summer solstice and the autumnal equinox. They also performed sacrifices extending over a year, regulated according to the motion of the sun and by these four days; indeed they looked upon the year as a sacrifice. These facts will show.

how the astronomical observations of the ancient Indo-Aryans were accurate and how references to astronomical facts in the Rigvedic hymns may be made the basis of mathematical calculation for determining their dates.

It is not necessary for the ordinary reader to have laid out before him the whole theory of B. G. Tilak, propounded in his 'Orion or Antiquity of the Vedas' and it would also not be easy for him to grasp it in all its details. We will, therefore, give the main points of the theory and try to make it as easy for the reader as possible. It is well known that the equinoctial points slowly recede about the circle of the ecliptic, a phenomenon known as the precession of the equinoxes. At present the vernal equinox is behind the Uttarā Bhādrapadā constellation. receded to its present position along the Nakshtras one by one and it follows that it was successively in Uttarā Bhadrapadā, Revatī, Aśvinī, Bharanī, Krittikā, Rohinī, Mrigaśirsha and so on. There are clear references in ancient Sanskrit literature to the positions of the vernal equinox in Asvini and Krittikā. The sliding back of the seasons due to this precession becomes marked when the seasons have slided back by about a whole month. Now the ecliptic is divided by the Indo-Aryans into 27 Nakshatras or constellations which means that each Nakshatra consists of an are of (360+27) 131 degrees. It takes nearly 72 years for the equinoctial point to recede one degree, which gives (72×13½) 960 years roughly for

the precession of the equinoctial point through one Nakshatra are. From this rough rule the reader will understand how from the present position of the vernal equinox in Purvābhādrapadā, calculation can be made as to when it was in Krittikā or Pleiades. This date comes to about 2500 B. C. (960×4½-1920=2400).

Now Tilak has shown that there are several references in the Rigveda to the position of the vernal equinox in Mrigasīrsha or Orion also. The Taittirīya Samhitā states that "Phalgunī Pūrnamāsi mouth (मुख्य) of the year " a statement repeated in five Brahmanas. Tilak has shown by various arguments that this statement shows that the year must then have commenced with the winter solstice in Phalguni. If moon was then full in Phalguni, the sun was then in Mrigasiras at vernal equinox. That Nakshatra thus had the name Agrahayana also, the " first of the year "and the Nakshatra list then must have commenced with it. This name also appears among the Greeks as Orion. There are other passages also in the Rigveda, though not directly yet clearly indicating that the vernal equinox was then in Orion. The story of Prajapati's head being cut off by Rudra and Indra cutting off the head of his enemy Vritra in the form of an antelope, is referred to in R, X 61, 5-7 and in R. I 52, 10 and R. V 34, 2 etc. (Orion, p. 99). Greek mythology also tells us that Apollo hit Orion in its head. These stories are based on the aspect of the stars in the Mrigasirsha constellation as graphically described by Prof. Whitney. "There is the whole story

illustrated in the sky; the innocent and lovely Rohinī (Aldebarat), the infamous Prajāpati (Orion) in full career after her but laid sprawling by the three iointed arrow (belt of Orion) shot from the hand of the avenger Sirius (Vyādha).* There is again the story of the celestial dog at the gate of heavens. the Canis Major among the Indo-Aryans and the Greeks and the Avesta dog at the bridge. R. I 161, 13 tells us that the dog commenced the year and Devayāna comprised the Vasanta, Grīshma and Varshā seasons (Orion, p. 111). These and various other legends are well explained by holding that the vernal equinox was then in Mrigasīrsha or Orion. leads to a date which is (960×2) 1920 years still further back than the Krittikā vernal equinox position and is thus (2500+1920) 4500 B. C. roughly speaking.

Tilak well shows here that the Indo-Aryans and the Iranians must have separated about this time; for even among the Parsis the Pitriyāṇa six monthly period begins with Bhādrapada. The vernal equinox in Mrigaśīrsha beginning the Devayāna period (when the sun is in the northern hemisphere), the autumnal equinox must be in Mūla Nakshatra and the six months of Dakshiṇāyana dedicated to the manes must have begun with Bhādrapada. The feast of the manes of the Parsis falls in this month and that of the Hindus also is observed in the dark half of it.

Tilak further argues that the mention of Chitra Purnamasi also in the Taittiriya Samhita leads to the

^{*} See also सुगाउसारिणं साक्षात् पश्यामीव पिनाकिनम् in Sakuntala,

inference that the vernal equinox was once known to be even in Punarvasu, behind Orion and the deity of that Nakshatra being Aditi, it fits in with the Vedicstory that Aditi was the mother of gods, the sun from that Nakshtra coming into the northern hemisphere and thus ushering the six months of the gods. "The oldest period in the Aryan civilization may, therefore, be called the Aditi or Pre-Orion period and we may roughly assign 6000-4000 B. C. as its limits." "The finished hymns do not seem to have been then known. Half prose and half poetical nivids or sacrificial formulas giving the names, the epithets and the feats of the deity invoked were probably in use. Parsis and the Greeks have retained no tradition of this period." "We next come to the Orion period commencing from about 4000 B. C. This is the most important period in the history of the Aryan civilization. A good many suktas of the Rigveda, e. g. the Vrishākapi sūkta, were composed in this period and several legends were formed at this time or developed from old ones. The Parsis and the Greeks separated from Indo-Aryans about this time and have preserved these legends about Orion, Agrahayana among Indo-Aryans and Pauryeni among Parsis" (Orion p. 206-207.)

As stated before, European scholars (except Jacobi) do not believe in this ancient date. "Professor Jacobi of Bonn thinks that the Vedic period goes back to 4000 B. C. a theory based on astronomical salculations connected with a change in the begin-

ning of the seasons which, he thinks, has taken place since the time of the Rigveda period." The argument advanced in refutation of this theory is that "it is based on an improbable assumption of the meaning of a Vedic word which forms the starting point of it." (p. 12). But Macdonell is compelled to concede (one cannot see why) that "meanwhile we must be content with the certainty that Vedic literature in any case is considerably of higher antiquity than that of Greece." But there is no such ambiguity of meaning of a word which can be advanced against the theory of S. B. Dixit by which the Satapatha Brāhmaņa is shown to be as old as 3000 B.C. This Brāhmana distinctly describes the Rigveda as it is to-day and hence if the date of the Satapatha is shown to be 3000 B.C. then the Rigvedic hymns must certainly be older and their period must lie between 4000 and 3000 B. C.

We will explain this theory of Dixit, as it is almost unanswerable and has not yet, so far as we know, been refuted by anybody, and as it supports almost conclusively the theory of Tilak regarding the age of the Rigvedic hymns. In Brāhmaṇa 2 of Khanda II Satapatha says "the Krittikas rise exactly in the east" (पास्ये दिशो न स्वयन्ते.—The Krittikas do not swerve from the east).* The tense is present and it leaves no doubt that the constellation rose exactly in the east in the days of the Satapatha writer.

^{*} Winternitz has recently put forward a different interpretation on this sentence. We will answer his arguments later when we speak of the Satapatha.

We have also shown above that the Vedic Rishis carefully marked the heavens and the rising of the stars and that they had marked the eastern direction exactly, like the Egyptian builders of the Pyramids. The statement of the Satapatha, therefore, is not hap-hazard but must be taken to mean exactly what it purports to mean. The rising of the Krittikas exactly in the east may be made the basis. of mathematical calculation, giving the date of this phenomenon. It may be stated that the Krittikas do not now rise exactly in the east but towards the north and from their position to-day we can find the time when they rose exactly in the east. To rise in the east, the Krittikas must be on the equator. They are a few degrees (4° 2') to the north of the ecliptic. The precession of the equinoxes, we know, continuously changes the position of the equator with respect to the ecliptic and we can see from the diagram given later on, how the equator must once have passed through them, though now it does not, By spherical trigonometry, the latitude of Krittikas being known, we can easily find the position of the vernal equinox at the time when the equator passed through the Krittikas. Shankar Balkrishna Dixit has made this calculation and found that the date must have been somewhere about 3000 B.C. He published his views in Indian Antiquary Vol. XXIV in 1895 and so far as we are aware no one has yet refuted this theory. What is sometimes argued against the truth of this theory is that the Satapatha.

writer, really of about 600 B. C., merely mentions a fact which was once seen in ancient times, as a present one by reminiscence. But the Krittikas must have swerved from their first position during this long interval of 2400 (3000-600) years and the writer, if he was a Vedic writer, must have marked the rising of stars and seen the new fact and could not have mentioned the old fact as a present one. Moreover, even if we grant this reminiscence theory, it concedes that the fact was once marked by Vedic Rishis and was remembered as a formula, which itself takes the Rishis back to 3000 B. C. We, however, hold this reminiscence argument to be of no value and if the Satapatha Brāhmana is itself so old as 3000 B.C. a fortiori the Rigvedic hymns must be far older and their period, therefore, may be placed between 4000 and 3000 B. C.

The same conclusion is fortified by two other dates similarly fixed from astronomical data. The date of the Maitrāyaṇīya Upanishad can be fixed to be about 1900 B. C. from the position of the vernal equinox mentioned therein as we shall see in detail later on (Tilak's Gītārahasya p 546); and the date of Vedānga Jyotisha can be fixed at about 1400 B. C. from the following statement in it, viz., "The sun and the moon turn towards the north in the beginning of Śravishthā" (प्रयोते अविष्ठादी सूर्याचंद्रमसानुदक्॥). Now this statement with its present tense occurring in a work on astronomy must be taken to embody an actual fact observed in the days of the Vedānga Jyotisha.

European scholars early saw the importance of this statement and Colebrooke announced that the fact happpened about 1200 B. C. and that, therefore, the date of Vedānga Jyotisha must be taken to be about 1200 B. C. As Vedānga Jyotisha presupposes the whole of the Vedic literature consisting of Samhitas. Brahmanas and Upanishads of all the four Vedas, it was pointed out to Max-Müller that his assignment of the Rigvedic hymns to the period from 1500 to 1000 B. C. was untenable. S. B. Dixit who has described in detail the method of calculation of this date on the data given by the Vedanga Jyotisha has shown that Colebrooke's calculation was from the beginning of Dhanishtha Nakshatra division, but that if the first star in the Dhanishtha contellation be taken the date goes further back, even taking the star pointed out by Whitney, to about 1400 B. C. It is interesting to note how Max-Müller answered this argument based on mathematical calculation on astronomical data. In his preface to Volume IV of his Rigveda, Max-Müller, admitting first that he had got the mathematical calculation subjected to a scrutiny by Archbishop Pratt, a noted astronomer and that he came to the conclusion that the date of the Vedanga came to about 1181 B. C., remarks curiously enough "This is welcome as confirmatory evidence if we had by internal evidence established the existence of Vedic poetry in the 12th century B. C. By itself this evidence would be of no use for establishing the age of Vedic literature." It is clear from this that

Max Müller was driven into a corner and had to offer some remark in support of his own conclusions. we had established by interval evidence the date of the Vedic literature, then there was no necessity of any external evidence. The fact is that the internal evidence of language on which Max Müller proposed his date is so slippery that such date cannot be said to be established. For when in a language grammar and vocabulary are studied and fixed, that language changes very slowly and one cannot assign 200 years only for each layer of change. Secondly, the date of Pānini taken by Max Müller and other European scholars is itself slippery and, too late as it is, no superstructure can be raised upon it. Thirdly, under such circumstances the unassailable date of the Vedānga Jyotisha arrived at from astronomical data can well be taken as the basis for determining the date of the Vedic iterature. The language of the Vedanga and the language of the oldest Rigvedic hymns lie so far apart that the date of the former being fixed even by Archbishop Pratt at 1200 B. C. roughly, the date of the latter cannot be taken to be later than 3000 B.C. We must remember that grammar was begun to be studied even in the days of the Brahmanas. The Satapatha date again, fixed on astronomical grounds at about 3000 B. C., takes the hymns back to 4000 B.C. And we may safely take the extent of the Sruti period from 4000 B. C. to 1000 B. C. a little after the date of the Vedanga Jyotisha.

The recent finds at Harappa between Multan

and Lahore in lower Panjab and at Mohanjo-daro in Larkhana in Sind cannot, in our view, militate against this date of the Rigvedic hymns. That these finds contain no vestige of Vedic civilization may be accounted for in two ways. Either these are more ancient than 4000 B.C. or they evidence the incursion of Semitic culture and settlement during the Vedic period. No date has yet been assigned to these finds; and it is too early to discuss it. But we may mention that the Vedic hymns contain many references to the ocean and also to voyages on the sea. That the Vedic Aryans had sailed down the Indus into the sea and gone as far as Mesopotamia cannot also be doubted. But the chief settlements of the Vedic Aryans were in the Panjab and the U. P. along the Himalayas and had not yet extended into the hot plains of Sind. Sindhu and Sauvīra were long outside the pale of Arvan civilization and it is, therefore, no wonder if Semitic people had founded cities in upper Sind and the lower Panjab. These finds, therefore, can suggest no inferences in connection with the date of the Rigvedic hymns or the settlement of the Vedic Arvans in the Panjab. Nay we may point out the fact that Vedic deities are found mentioned in Hittite records recently discovered at Boghazköi in Asia Minor, records which go back to the 14th century before Christ. In the record of a treaty between the king of the Hittites and the king of Mitani, the gods of both kingdoms are invoked as guardians of the treaty, and among the gods of the Mitani appear Mitra,

Varuna, Indra and Nāsatya. It thus appears that the Mitani were an Aryan settlement from the Panjab. It can not be supposed that this was an independent Aryan branch which went into Asia Minor from the ancient Aryan home. For Indra is pre-eminently an Indo-Aryan deity and had no existence in that home. That there was intercourse between Mesopotamia and the Panjab in those early centuries is also apparent from certain unintelligible words in one Rigvedic hymn such as 'Turpharü' which appear to be Chaldean. And B. G. Tilak has pointed out that the name 'Yavha' pertaining to God appears as Jehova among the Hebrews. If, then, there was intercourse between Indo-Aryan Panjab and Asia Minor in the 14th century B. C., the coming of the Indo-Aryans into the Panjab and the older Rigvedic hymns may fairly be placed in the fourth millenium B. C.

Argument again in favour of a late date for the Rigvedic hymns is sought to be derived from the extreme similarity of Avestic gāthās and Rigvedic mantras which are sometimes identical. There is no doubt that the Indo-Aryans and the Iranians once formed one people and lived together. They naturally have some mantras in common. But we must remember that Zoroaster did not himself compose these gāthās. He only preserved what had come down from centuries and even if we take 550 B. C. as the date of Zoroaster, that cannot be the date of those gāthās. Indeed, as the Hindus have preserved the Vedic mantras intact for thousands of years, because they

have become sacred, so also must the Avestic gāthās have been preserved intact for thousands of years before they were taken up by Zoroaster for his new religion. The date of Zoroaster is, however, much earlier than that taken by European scholars, and Parsi scholars supported by anciant Greck writers place him as early as 2500 to 4000 B. C. We need not discuss Zoraster's date here, as even taking his date to be 550 B. C., the age of the gāthās does and must go far behind him.

Finally, the argument based upon calculations as to how long the Indo-Aryans might have taken to spread from the Panjab to Bengal in the east and the Deccan in the south is as slippery as that based on language. Peoples sometimes spread fast; but sometimes they stand stationary for thousands of years. The Aryans in the north and the Mongolians in the east and the stronger Dravidians in the south might have lived side by side without change for thousands of years and conquest in the east and south may have been by sudden expansion. Indeed, the jungles of the Gondvan country were invaded and cut only under British rule. Burmans and Indians again lived side by side from the most ancient times down to the twentieth century A. D.

III RIGVEDA

CONTENTS AND COMPILATION

The Rigveda contains 1017 hymns called Sūktascomposed by different Rishis or Vedic poets. exactly resembles "The Golden Treasury of Songs." Some careful compiler has evidently made this collection, with a fixed plan before him, by selecting good hymns from among many then current among the Indo-Aryans, handed down from generation to generation. The plan is evident from the arrangement of the hymns into ten Mandalas or books. There is a plan in this division, as the second to the eighth Mandalas contain hymns current in certain Rishi families, viz., II Gritsamada, III Visvāmitra, IV Gautama, V Atri, VI Bharadvāja. VII Vasishtha and VIII Kanva, respectively. The ninth Mandala contains hymns composed. by different Rishis in praise of Soma juice, the libation peculiar to the Himalayan regions. The first and the tenth Mandalas contain hymns on miscellaneous subjects and form the van and the rear, so to speak, of the collection. The first hymn is addressed to Agni the most ancient and favourite god of the Aryans and is composed by Madhuchchhanda, who is called

Satarchin* meaning composer of a hundred verses and the last hymn of the collection is addressed to the unity of hearts of the teacher and the pupil.

The several Mandalas (except of course the ninth) again consist of groups of hymns composed by the same author. There is sometimes a mention of the author of the hymn in one of its verses but usually not and the information about the authorship of hymns must have been separately handed down from generation to generation. As the Rigveda soon became the revelation of the Indo-Aryans, it was zealously as well as carefully scrutinised. And Anukramanis arose later which gave detailed information about the number of hymns in it, the number of riks in each hymn, the author of each hymn, the deity praised by it and so on. Kātyāyana's Sarvānukramani or table of centents dated about 300 B. C. is available to us and furnishes us with full information about the Rigveda. We have simply to note it and present it to the reader in all its principal details.

The Rigveda was learnt by heart probably by every Brahmin, Kshatriya and Vaisya in ancient times. But its length must soon have deterred almost all and to learn it by heart became the occupation of a few Brahmins only. These for their convenience divided it into eight Ashtakas, each Ashtaka

^{*} Rich or Rik meaning a verse, Shadgurusisya explains that the poets of the first Mandala are called Satarchins because the first Rishi is a Satarchin, there being 102 verses of his in this Mandala in the beginning (Sarvānu, by Macd. p. 59.)

The Rigveda was thus divided into 64 Adyayas or chapters. These chapters are again subdivided into Vargas on what principle cannot be exactly seen. Vargas consist of from one to nine Riks and there is one Varga of one Rik and one of nine Riks. The number of Vargas with 2, 3 etc., to 8 Riks is also counted and the total number of Vargas is 2006.

The reader will thus see, that the eight Ashṭakas and the ten Mandalas cannot be coextensive, the latter being subdivided into Anuvākas which consist of certain numbers of whole sūktas or hymns. These divisions are shown in the following table

Mandala	No of Anuvākas	Sūktas	Ashtaka	No. of Vargas in the printed copies
1	24	191	1	265
II	4	43	11	221
111	5	62	III	225
IV	5	58	IV	250
V	6	87	V	238
\mathbf{VI}	6	75	VI	331
$\mathbf{v}\mathbf{n}$	6	104	VII	248
VIII	10	92	VIII	2 46
IX	7	114		
X	12	191		2024*
	85	1017	* The difference of 18 is due to inclusion of Vālakhilyas-	

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That the number of hymns in the first and the tenth Mandalas is the same is an accident and not a conscious arrangement as Dr. Macdonell thinks.

The Rigveda has been religiously preserved by the Vaidika Brahmins for these several thousands of years without any variation and there are novarious readings in it. Some differences in pronunciation and ritual arose in course of time and these gave rise to what are called Sakhas (branches) or Charanas (feet). The Sakhas of the several Vedas with the parts of India where they are chiefly to be met with, are enumerated in a modern treatise called Charanavyùha or collection. of Charanas, the exact date of which we willdiscuss in a note. This work enumerates five principal Śākhās of the Rigveda from among twenty-one said in the Mahābhāshya to be once current and these five are:—1 Śākala, 1 Bāshkala, 3 Māndūkeya, 4 Asvalavana, and 5 Sankhavana. Each of these had a Sūtra of its own. At the present day only the Sākala Sākhā remains with Āśvalāyana and Sānkhāyana Sutras. What difference there was in these different Sakhās, so far as the contents of the Rigveda are concerned, it is difficult to determine at this date. But the difference must have been insignificant. We are indeed told in the Anuvākānukramanī of Saunaka. that there are eight hymns in addition in the Bashkala Śākhā (Sarva. Macd. p. 51). The modern Vaidikas have preserved one of these viz.. तच्छंयोरावृणमिहे etc. is recited at the Śrāvani but is not found in the Śākala recension. There may have been also some transpositions of hymns or verses in the Bashkala recension and hence the proverb among Vaidikas which.

dubs a man as Bāshkala who puts things topsy-turvy. The Śākala Śākhā Samhitā was popular from ancient times and has, therefore, now been alone preserved. It has been subjected to careful scrutiny and Śaunaka and Kātyāyana give its contents in minutest details, even the words, nay even the letters in the Samhitā being counted.

There are eleven Vālakhilyas or hymns of Vālakhila Rishis (children poets) added as appendix but given in the midst of the Śākala Saṃhitā. These are learnt by heart by Vaidikas, but are not put into the Pada text nor included in the number of words. Thus in the 1017 Suktas, there are 10580 ½ Riks or verses giving 10 verses on an average for each hymn and in these verses there are 153826 words in the Śākala recension of the Rigveda and there are altogether 432000 letters which shows that there are about 15 words in each verse on an average and a word on an average consists of three letters.

Long standing tradition recorded in the Mahā-bhārata (300 B.C.) ascribes the compilation of the Vedas to Krishṇa Dvaipāyana son of Parāśara, called Vedavyāsa for this very reason (वेदान् विज्यास यस्मान्स वेदन्यास इत्योरित: and तपसा बहाचर्यण ज्यस्य वेदान्महामाति:) (MBh. I. 2) There is no reason why we should not accept this tradition with certain reservations. Krishṇa Dvaipāyana Vyāsa, it must first be pointed out,

"शाकल्यहडे पदलक्षमेकं सार्थ च वेदे त्रिसहस्रयु कम् शतानि चाडो दशकद्वयं च पदानि चद्रचेति इ चर्चितानि ॥ ४५ (शो. अत Maod. p. 5%)

is a different person from Bādarāyana Vyāsa, author of the Vedanta Sutras as will be shown in a subsequent chapter. The former again was a contemporary of the heroes of the Bharata fight which must/ be placed in 3102 B.C. as Indian tradition, supported by evidence, believes. And since the date of the Satapatha Brāhmana is fixed by S. B. Dixit, as shown already, at about 3000 B. C. and since the Satapatha describes the Rigveda as we find it to-day, the compilation of the Rigveda may fitly be ascribed to Krishna. Dvaipāyana. There are other indications also. The tenth Mandala which brings together the latest hymnscontains a hymn composed by a historical personage connected with the Mahābhārata heroes. viz., Devāpi, uncle of Bhīshma. Another hymn in a previous Mandala mentions Somaka, son of Sahadeva, a Pānchāla king mentioned in the epic. The compilation of the Rigvedic hymns, therefore, must have been made a little later than Devāpi and Somaka. This would again make Krishna Dvaipāyana a probable compiler of the Rigveda. Thirdly, the different Saknas of the Rigveda are, so to speak, editions slightly varying one There are five of them which are now from another. well-known and we may be sure that twent-one were current in the days of Patanjali. When we consider how rigorously Brahmins have preserved the Rigveda, a long time must have elapsed after its compilation by Vyāsa down to Patanjali and to Saunaka, who clearly mentions two versions current in his days viz. the Śākala and the Bāshkala editions. If we, therefore,

look upon Krishna Dvaipāyana Vyāsa (c. 3100 B. C.) as the compiler of the Rigveda, there is a sufficiently long period of years for various versions of the original Rigveda to come into being.

Dr. Macdonell thinks that there were more stages than one in the compilation of the Rigveda, that the second to the seventh books of single families must have been first compiled, that the ninth was subsequently added containing hymns addressed to Soma taken from the above family books and that the first book was subsequently added to these, together with the eighth "with which it has much affinity, more than half of its hymns being attributed to the Kanva family and the favourite strophic metre of the eighth reappearing in the first." (p. 42) "The tenth book came into existence, when the first nine already existed. Its composers grew up in the knowledge of the older The fact that the author of one of its groups (20-26) begins with the opening words "Agnimile" of the first hymn of the Rigveda is an indication that the books I-IX already existed in his day even as a combined collection." But what ground is there to believe that this author had the nine books before him as a combined collection? For the words "Agnimile" might have been taken from the hymn of Madhuchhanda alone which, and not the whole first book, might have been before him. Nay more, the occurrence of two identical words at the beginning of two hymns in I and X only may have been a pure chance. some of the hymns in the tenth book are old hymns,

though many hymns in it are distinctly of late date from their language and contents. In short, the whole Rigveda in ten Mandalas may be taken as the work of one compiler, done at one time and need not necessarily be a work successively grown up.

We again differ from the view generally entertained by European scholars that the original work was in a different form from the Samhita form now current. "This phonetically modified form is due to the labours of grammatical editors" (Macd. p. 47) "This text differs in hundreds of places from that of the composers of the hymns, though its actual words are nearly always the same as those used by the original seers. The difference lies almost entirely in the phonetic changes which the words have undergone according to the rules of Sandhi prevailing in the classical language. Thus what was formerly pronounced as "tvam hi agne" now appears as "tvam hyagne" "These phonetic combinations introduced in the Samhita text have interferred with the metre" (Macd. p. 48). The Samhitā text embodying such combinations is believed to have been compiled about 600 B. C. (p. 50) as "grammarians like Sakalya and Mandukeya are first mentioned in the Aranyakas and Upanishads and hence the Samhita text must have been formulated after the Brahmanas and before the Upanishads."

But this whole argument seems to us to be unsound for various reasons. Is it meant that the Vedic sages did not know the sandhi rules or did not

make sandhis in their compositions? For example is it meant that the Vedic seer originally wrote or rather sang 'hi agne' as the metre required, and not 'hyagne'? (hi agne would give three syllables while hyagne would give two). That the old Vedic seers acted upon sandhi rules is certain from many verses in their compositions where such sandhis have been made and where they fit in with the metre e.g. पुरुष एवेदं सर्वम्. That their sandhi rules often differed from those of Pānini is also certain from several examples such as पश्च तांश्रके and बक्षा: सूर्यो अजायत. Moreover if the Sanhitā text was due to the lectures of grammarians, how were such texts as ऋषीन्तपस्ततो (x 154) not changed into ऋषींस्तपस्ततो which causes no fault in the metre? How do we then explain such cases as 'hyagne' where the metre falters owing to the shortness of a syllable? The explanation has already been given by Kātyāyana in his Sarvānukramaņī in the sūtra पादपूरणार्थ तु क्षेत्रसंयोगैकाक्षरी-भावं न्युहेत् (Macd. Sarv. p. 2) which is explained by Shadgurusishya in his commentary in two ways (p. 63) "Kshaiprasamyoga means Yakāra-Vakāra-Samyoga or Yan-Samyoga i, e. conjunct consonants with y, v, r and l". It seems, therefore, that it was a convention with the Vedic poets that even where Sandhi was made the one conjunct letter or syllable so arrived at should, for purposes of metre, be looked upon as two. Indeed Vaidika reciters even now recite hya as two letters but not as they originally stood viz, as 'hi agne' but as 'hiyagne,' the y being distinctly heard. We may

even point out conjunct consonants with y and v being treated as two syllables with i and u added, in reciting, to the previous consonant, even where there are originally not two words joined by sandhi but only one word. Thus in the well-known Gayatri verse "तत्सवितर्वरेण्यं &c." the first foot would consist of seven syllables only if nya is treated as one syllable. Here there is no sandhi of two words but there is one word only and yet nya has to be split up into two letters which Vaidika reciters pronounce as niva. It is, therefore, proper to hold that the ancient Vedic posts had this convention for making up the required number of syllables, viz. splitting one syllable into two especially conjunct consonants with y and v, instead of holding that they did not make any sandhis. Sandhis in sentences are no doubt optional but that is for speaking with facility. No poet would rely upon this in his versification and it is difficult to believe that Vedic poets with such brilliant powers of composition as they exhibit would not make sandhis. The Samhita text is. therefore, the original text of the Rigveda; though the word Samhita appears to have arisen after the Pada text was formulated, to distinguish the former from the latter, just as the word Sanskrit arose after the Prakrits were born, though that language is of course older than the latter.

The argument again relied on for fixing the date of the Samhitā text is the usual fallacious argument based on non-mention. Because the Brāhmaṇas do not contain any reference to grammatical specula-

tions or terms nor mention any grammarians, it does not, therefore, follow that there were then no speculations or grammarians. Non-meation proves nonexistence only when mention is necessary. Brāhmana-writers might have had no occasion to mention grammatical speculations or they may have not thought the mention necessary even if they had an occasion. Grammatical rules again are enunciated years after the forms are actually used and we may well conceive that the Vedic poets did make sandhis or combinations of vowels at the end of the preceding words with vowels at the beginning of the following ones, long before grammarians arose and formulated the rules of such sandhis. It is only in a dead language that grammatical rules become masters. A living language uses forms or makes sandhis from natural tendencies. It is, therefore, not necessary to hold that the Samhita text arose after grammatical studies had progressed and grammarians had arisen. nor to suppose that the Samhita text arose after the Brāhmanas because the latter do not mention grammarians.

The Indian tradition, therefore, namely that Krishna Dvaipāyana Vyāsa made the Vedic compilations before the Satapatha, the oldest Brāhmana, was composed in about 3000 B. C., may be accepted as reliable. We can not further hold that the Rigveda in its compiled form was before the authors of the Yajus's formulæ or Sāman verses. For these two were also collected into Samhitās by Vyāsa at the same time

from the floating material then existing. These two Vedas, no doubt, contain many verses from the Rigveda almost everywhere; but it is not necessary to suppose that they take them from the compiled Rigveda. They could do so from hymns as they then separately existed among the Indo-Aryans. There are a few variations in the verses quoted but these are probably due to quotation from memory or to necessity. Rigvedic verses are quoted in the Brāhmaṇas and the Sūtras also. But these were quoted after the Rigveda was compiled into a fixed form, as the Brāhmaṇas and Sūtras date later than the compilations for reasons mentioned later on; and the variations in such quotations were often consciously made for purposes of ritual, as held by Dr. Macdonell himself.

While accepting the tradition of the compilation of the Vedas by Vyāsa we may, however, reject that part of it which credits him with compiling the Atharva text also, for we have seen that originally there were three Vedas only, the Atharva Veda being put together later. We may also reject the idea suggested later (especially in Vishnu Purāṇa) that Vyāsa taught the four Vedas to four different pupils, viz. Rigveda to Paila, Yajurveda to Vaisampāyana, Sāmaveda to Jaimini and Atharvaveda to Sumantu. He taught the three Vedas and Bhārata composed by himself to each of his four pupils and to fifth his son Suka. In ancient times all Brahmins learnt all the three Vedas and division of labour by Brahmins sticking to particular Vedas arose after the Brāhmana.

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period at least. It is hence that we find the Satapatha Brāhmana of the Sukla Yajurveda mentioning the Rigveda with respect and treating the change of even one word in a Rigvedic verse as a thing not to be thought of, indeed as blasphemous. The Sukla Yajurveda arose after Vyāsa had compiled the Rigveda, the Krishna Yajurveda and the Samaveda, as its very tradition (which will be given later on) indicates. The Brahmana literature of the other Vedas grew up later following the example of the Satapatha Brahmana, and when the volume of the literature of each Veda thus became vast and when ritual sanctioned by the different Vedas also differed. Brahmins divided themselves into distinct classes which acknowledged allegiance to particular Vedas only, a fact proved by these different classes of Brahmins being descended from the same Rishis and having the same gotra and pravara, as also by the fact that the Rishis of the different Vedas are also the same.

This division of Brahmins into Rigvedins, Yajurvedins and so on was further necessitated by the increased labour of learning by heart the Pada and Krama texts of the Vedas. The Samhitā texts were, as we have seen, formulated about 3,100 B. C. and in the course of nearly a thousand years, the Vedic language became generally unintelligible. Learned Brahmins, therefore, had the Samhitā text made explicit by separating the padas or words, so that no ambiguity of meaning might arise and to make

the Pada text fixed, they further invented the Kramatext in which each pada was twice uttered, once with the preceding pada and again with the succeeding one. Ingenuity further invented the Jatā and Ghana Pāthas or methods of reciting, so that Brahmins of exceptional ability could exhibit feats of wonderful memory by reciting the padas thrice and in different permutations, as well explained by Dr. Macdonell in algebraic terms such as ab, ba, abc, cba, abc and so on.

At what date the Pada text of the Rigveda, soon followed by the Krama recitation, was formulated, we have certain indications for surmising. This must have been before the Aitareya Aranyaka was composed as there is a distinct mention of it therein. Sākalya is considered to be the author of the Pada text. and his name is mentioned in the Aitareva Aranyaka. The author of Krama was Gālava of the Bābhravya gotra (M.Bh. XIII, Ch. 341). The Pada and Krama recitations being usually more sonorous than the Samhitā recitation, they are specially mentioned in the Mahābhārata where Kanva's Āshrama or residential university is described in detail in Adi-Parva. makes it certain that Pada and Krama recitation was popular before 300 B. C., the certain date of our present Mahābhārata as shown later on. Sākalya, the author of the Pada text must again be placed before Pāņini who usually quotes Śākalya the grammarian. Sākalya is mentioned in Aitareya Āranyaka which. mentions the Samhita, Pada and Krama pathas as Nirbhuja, Pratrina and Ubhayamantarena and gives the

different fruits of their recitations. Even Keith gives 600 B. C. as the probable date of this Aranyaka and hence Pada and Krama pathas of the Rigveda are certainly not later than 600 B.C. Aitareya Āranyaka, as will be shown later on, may be placed still earlier and the Pada patha seems to be nearly as old as 2000, B.C. Mahābhārata XIII. ch. 134 contains a story that Sākalya performed austerities and propitiated Siva who gave him a boon by which his son became a famous Sūtra-writer. Unfortunately there is no detail here as to who this Śākalya was and what his Sūtra was about. It is permissible, however, to suppose that Sakalya. the father, was the author of the Pada text and Sakalya, the son, was a grammarian and composed a Sūtra on grammar which is always mentioned with respect by Pāņini and he is also mentioned in Aitareya Āranyaka. Sākalya, however, is a patronymic which may be borne by many-nay hundreds.

The Rigvedic verses, as also those in the other Vedas and even the prose portions of the Black Yajurveda use words with Vedic accents called <u>Udātta</u>, Anudātta and Svarita. These accents Sanskrit lost in the days of the Brāhmaṇas and thus long before Pāṇini who, however, gives rules for the accents or svaras for the Vedic language. The Satapatha and the Taittirīya Brāhmaṇas alone have svaras while all other Brāhmaṇas have none. The Pada texts of the Vedas have accents. The Pada texts might have been, therefore, formulated even before the other Brāhmaṇas arose though it is possible to hold that the Pada text

might have been subsequently formulated with accents according to certain rules following the Samhitā accents. As shown by Dr. Macdonell, musical accents existed even in old Greek and some other Aryan languages and these have now been replaced by stress accents. But his view that stress accents exist even now in modern Sanskrit cannot be accepted. So far as we know, there is no accent of any kind in modern Sanskrit, all syllables being pronounced in the same tone without any stress on any syllable. Dr. Macdonell has not given the authority for his opinion and there is no mention of this accent in either Pāṇini or Patanjali or later writers.

It must be said to the credit of the Vaidika Brahmins of India that they have preserved the Rigveda and the other Veda texts, difficult as they are by reason of Vedic accents which have disappeared these nearly four or five thousand years, without any deviation either of a word, syllable or accent. The knowledge of the Rishis and the Devatās of the various Vedic hymns is, however, preserved in Kātyāyana's Sarvānukramaṇis compiled from Anuvākānukramaṇis, Ārshaanukramaṇis and Chhandonukramaṇis etc., which were older. The Prātiśākhya of Śaunaka is another work which relates to the pronunciation of the Śākala Śākhā and there might have been other Prātiśākhyas, as the name indicates, for other Śākhās also.

Rigveda Vaidika Brahmins at present are to be chiefly met with in the Deccan and the Konkan and

in some parts of Southern India. There are some Rigvedins among Kanojia Brahmins in Northern India, but it is doubtful whether they can produce any Vaidika who can recite the whole Rigveda with any of its Brahmanas. The Rigveda is the most important and the oldest Veda, yet its adherents are so few and found only to the south of the Vindhyas. The reason of this is not apparent, but that this must have been the case from many centuries is apparent from the fact that Rigvedic mss. and recitation are always found with the peculiar letter (1) substituted for d as also (lh) for dh. These letters and pronunciations are peculiar to Southern India and are to be met with in Dravidian languages only. They are not to be found in the Akshara-vatika of Panini nor in the recitation of the Black Yajurveda and probably not in the recitation of other Sakhas of Rigveda itself now extinct. This letter and pronunciation is sanctioned by the Saunaka Prātiśākhya. Probably he belonged to the south and this way of recitation arose after Panini, when the Indo-Aryans settled south of the Vindhyas about the 8th century B.C., at least before Buddha, as Dr. R. G. Bhandarkar properly held.

Lastly we have to point out a strange mention about the Śākhās of the Rigveda in the Mahābhārata. These are, as stated before, said to be five in Charanavyūha; and twenty one in Patanjali's Mahābhāshya; but there is an enumeration of Śākhās in MBh. Śānti. P. ch. 343 (Nārāyanīya Ākhyāna) wherein

the word 21 thousand is used in this connection. is clear that this is a gross exaggeration; the commentator gives no explanation of the word thousand used here. That it refers to Sakhas is clear from the context and it is extremely probable that Sahasra is a misreading of an original Sākhākam, in the Mahābhārata verse here.* The twenty-one Śākhās of the Rigveda, however, are mentioned by Patanjali also and thus are as old as the Mahābhārata of 300 B. C. As already stated five of them were well-known and now only the Śākala Śākhā remains. There seem to be some further variations of pronunciation probably even under this Sākhā as one is actually named as Saisirīya in the Anuvākānukramani of Saunaka (Macd p. 51). As the word Pārāyana is used here, this may be a school of Pārāyana reciters i.e. reciters of the whole Veda, and not a Sakhalor school of the Rigveda Samhitā.

Note:—The two-fold division of the Rigveda.

The division of the Rigveda into Ashtakas, Adhyāyas-aud Vargas in addition to its earlier division into Mandalas, Anuvākas and Sūktas is almost inexplicable. It is, however, old, as old as Śaunaka's Anuvākānukramani i. e. 300 B. C. The principle of this division is unsurmisable, especially it is impossible to guess on what principle the Vargas have been made. We made enquiries of many Vaidika Brahmins on this subject but none could enlighten us. The Vargas consist of one, two, three, and so on up to nine Riks without any reference to the ending or beginning of a Sūkta. So also the Adhyāyas are made to end without regard to the ending of a Mandala;

[#] एकविंशतिसाहस्रमृग्वेदंगांप्रचक्षते was probably एकविंशातिशाखाइ

thus the seventh Ashtaka, Adhyaya 5 and Varga 29 ends with the first Sukta of the tenth Mandala, Sukta, Anuvaka, Mandala is on the other hand an understandable division. Sukta is a complete hymn, usually composed by one Rishi and an Anuvaka consists generally of the hymns of one Vedic seer, though where there are many Suktas of the same seer, they are grouped into more Anuvakas than one. Thus, the eleven Suktas of Madhuchhanda the first Rishi of the first Mandala consisting of 10 Riks each including that of his son are put into three Anuvākas, while the 12 Sūktas of the Rishi Medhātithi Kānva with 143 Riks are put into two. The succeeding Rishis Sunahs'epa, Hiranyastupa, Kanva Ghora etc., have one Anuvaka assigned to their Suktas which are seven, five eight etc., in number. One Anuvaka may contain, however, Sūktas of more than one Rishi if they are few or single. Thus in the tenth Mandala the first Anuvaka contains Suktas of more than one Rishi, so also the second and third, tho total number of Riks being 148, 146 and 136. No. Anuvāka ends, we believe, in the middle of a Sukta. The principle of the division of the Rigveda into Mandalas and Anuvakas and their arrangement can be seen from the list of the 1017 Sūktas with their Rishis and Devatās given in the Appendix.

RIGVEDIC RISHIS.

The definition by Kātyāyana of a Rishi is again straight and simple. 'यस्य वाक्यं स ऋषिः' " The person whose utterance it is is the Rishi of it." The name of the poet is, however, not usually mentioned in his utterance and as stated before, this information must have been handed down from generation to generation. It probably was not given by the compiler of the Rigveda; for it could not then have been necessary to compile Ārshānukramanīs or Sarvānukramanīs like that of Katyayana. Probably the compiler of this golden treasury of songs did not give the names of the seers as they must have been then well-known. But after centuries such Anukramanis became necessary, giving the names of the compilers of the hymns as also the metres and the gods in whose praise they were uttered.

The Asvalayana Grihyasūtra in its Tarpana Adhyāya (III-4) describes these Rishis succinctly as follows*:-अथ ऋषयः शतार्चिनी माध्यमा गृत्समदो विश्वामित्री वामदेवो भरद्वाजो वासेष्ठः प्रगाथाः पावमान्यः क्षद्वसूका महासूकाः॥ 1 Satarchins. 2 Mādhyamas. 3 Gritsamada. 4 Vishvāmitra. 5 Vāmadeva. 6 Atri. 7 Bharadvāja. 8 Vasi-9 Pragāthas. 10 Pāvamānis. 11 shtha. Kshudrasūktas and 12 Mahāsūktas. The explanation given of the first two names by Shadgurusishya is untenable. He says that the Rishis of the first Mandala are all called Satarchins, because the first viz,, Madhuchhanda has 102 Riks, the rest having the same name

by comradeship, while the Rishis of the intervening Mandalas are called Mādhyamas and the Rishis of the last or tenth Mandala are called Kshudrasūktas and Mahāsūktas But if the Rishis of the middle Mandalas are included in the term Mādhyamas, where was the propriety of again detailing them as Gritsamada &c.? The libation of water would thus be given over again. We think that the Rishis of the first Mandala alone are called Satarchins and Mādhyamas by Āsvalāyana. These Rishis with the number of their Sūktas and Riks are as follows:—

	Name	No. of Suktas	No. of Riks.
1.	Madhucchandas with	h	,
	his son	10 + 1 = 11	102 + 11=123
2.	Medhātithi Kāņva	12	143
3.	Śunahśepa Ajīgarti	7	97
4.	Hiranyastupa Angir	asa 5	71
5.	Ghora Kāṇva	8	96
6.	Praskanva Kāṇva	7	82
7.	Savya Angirasa	7	7 2
8.	Nodhā Gautama	7	74
9.	Par āsa ra Śaktya	10	61
10.	Gautama Rāhugaņa	20	204
11.	Kutsa Āngirasa	5	42
12.	Kāshyapa Mārīcha	1	. 1
13.	Rijāsva Āmbarīsha	1	19
14.	Kutsa Āngirasa	4	3 9
15.	Aptya Trita Kutsa	1	19

[&]quot; द्वितीयादि नवमान्तेषु मध्यमेषु मंडलेषु मध्यमनामानः

	Name	No of Süktas	- No of Riks.
16.	Kutsa Āngirasa	10	107
	Kutsa thus ha	ıs 15	165
17.	Dairghatamasa	12	160
18.	Parucchepa Daivodā	si 13	100
19.	Dīrgahtamas Autath	ya 24	231
20.	Agastya	13	103
21.	Lopāmudrā	1	6
22.	Agastya	11	99
23.	Vishasanki Agastya	1	16
	Total Agastya	. 26	224

Those in the above list with verses over hundred are, we think, called Satarchins by Asvalayana and those with verses below one hundred are called Mādhyamas. The Rishis of the second to the seventh Mandalas are of the families of Gritsamada etc. and have separate libations under those names. European scholars do not look upon the eighth Mandala as a family Mandala but it is treated as such by Aśvalayana who calls the Rishis of this Mandala by the name Pra-In this Mandala there are 92 Sūktas and 11 gāthas. more Sūktas called Vālakhilyas are inserted in the middle of it (49-59); thus the total number may be taken to be 103. Now these 11 Valakhilyas are all by Kanvas and of the other 92 more than half namely 50 are also by Kanvas. And thus this Mandala may regarded as a Mandala of the Kanva family. Asvalāyana calls the Rishis Pragāthas because Pragātha has a Sūkta in the beginning; but Pragātha also appears to be a Kānva (See Sūkta VIII. 48 and Sadgurusishya's commentary. Macd. p. 136). There are hymns no doubt of other Rishis also in this Mandala, but the predominance of Kānvas gives their name to the Rishis properly enough. The fact that "this Mandala contains fewer hymns than the seventh" (104) cannot indicate, as Macdonell thinks, "that it is not a family Mandala." The number of hymns is irrelevent and it is inexplicable how this argument can be advanced (p. 42). Indeed one may also argue that the 11 Vālakhilyas are added to this Mandala for this very reason to make up the round number 103, if this reason is really important. But it is not so as the several family Mandalas (II-VII) have Sūktas of various numbers as already shown.

The Rishis of the 9th mandala are properly called Pāvamānis and though they are often the same as the preceding Rishis they have a separate libation as composers of Pavamana (Soma flowing) hymns. Lastly the tenth Mandala contains hymns on miscellaneous subjects, some important and others insignificant and Aśvalayana groups the Rshis of these hymns as Kshudrasūktas and Mahāsūktas, "composers of small and great hymns." The commentator Shadgurusishya explains that the hymns down to the famous Nasadiya (X 129) are great hymns and the remaining (130 to 191;) are small ones. This explanation seems supportable as on looking into the tenth Mandala one does find that the hymns down to 129 (which is perhaps the greatest hymn in the Rigveda showing to what philosophic height the thought of the

Rigvedic Rishis reached) are both long and important hymns and deserve to be called Mahāsūktas; the succeeding hymns are almost all of them short poems and are on unimportant subjects. They may fitly be called by comparison Kshudrasūktas.

It must, of course, be remembered that the division into family books is not quite rigid. For we find the hymns of Madhuchhandas Vishvāmitra and Medhātithi Kāṇva given in the first book instead of in the third and eighth. (Medhātithi is again quoted in VIII 31 and 32). The seventh Maṇdala again contains 104 hymns all attributed to Vashistha but his grandson Parāsara son of Sakti is also quoted in the first Maṇdala (65to 76). Probably these are given first in the first book because they are simple and musical, the compiler of the Rigveda wishing apparently to begin his golden treasury with the simplest hymns, the first being addressed to Agni the first Vedic deity.

Among the authors mentioned in the 10th Mandala there are Rājarshi authors such as Kavasha Ailūsha (X 31), Aruņa Vaitahavya (X 91), Sudāsa Paijavana (X 133) Māndhātri Yauvanāśva (X 134). There is a Sūkta by a Vaiśya, Vatsapri Bhalandana. There are some women authors also such as Apālā, daughter of Atri (VIII 91). Indeed a non-Aryan Rishi is also met with viz., Ūrdhvagrāvan son of the serpent. Arbuda (X 175).

The authorship of certain hymns seems to have been forgotten and such hymns are assigned to ima-

ginary authors, usually some person mentioned in the hymn and even to the deity praised in it. A conspicuous example of this is the Purusha-sūkta (X 90) which is attributed to Nārāyaņa or Purusha. The hymn X 103 is attributed to Vena who is mentioned in it but who can hardly be its author. hymns attributed to Manu Vaivasvata (VIII 27-31) are again attributed to him, because the name Manu occurs in some verses; but we cannot believe that their author was the mythical Manu, son of Vivasvat, a name occurring in the Zend Avesta also. The verses attributed to Urvasī and Purūravas can hardly be theirs, though, being in the form of a dialogue, they come under the rule "The Rishi is he whose speech it is." Lastly, sometimes the Rishi is mentioned in the hymn itself with great respect and hence the hymn must be taken as that of a descendant of the Rishi, though it is attributed to the Rishi himself. The heavenly birth of Vasishtha is itself referred to in one of his hymns and we may believe the revered ancestor Vasishtha of the singer had already attained sanctity and the hymn belongs plainly to a descendant of his. We have already quoted a verse from the Mahābharata wherein it is said that originally there were four gotras only, viz., Bhrigu, Angiras, Vasishtha, and These were probably the four great Aryan family stocks which came to India first and settled in the Panjab.

The commentator quotes various passages from the Purāṇas as also from Bṛihad-Devatā and other

ancient works giving interesting stories about several Rishis. These apparently had their origin even in Rigvedic days; for the birth of Vasishtha and Agastya from the twin-gods Mitra and Varuna (like the birth of Achilles from Apollo) is mentioned even in a Rigvedic hymn. There are certain indications in the hymns themselves from which such stories might have been formulated. The story how Syavasva, son of Archananas, son of Atri, became a Rishi or composer of hymns is interesting, being a love story. He was enamoured of a princess, but was refused as he was not a Rishi (Macd. Sarv. p. 118). The story of Sunahsepa purchased by Harischandra's son for sacrifice to Varuna and his release by Varuna on praying to him and his adoption by Viśvāmitra as Devarāta is well-known and is, we think, as explained at length later on, hinted at in his sukta in the first Mandala. The stories of Gritsamada son of Sunaka, of Viśvāmitra son of Gādhi, son of Kushika, son of Ishīratha, of Vāmadeva's conversation with Indra from the womb of his mother, of the birth of Angiras, Bhrigu and Atri from Prajapati, of Dirghatamas son of Uchathya, son of Angiras and brother of Brihaspati, of Sakti son of Vasishtha burnt by the servants of Viśvāmitra, of Pragathi son of Ghora who became the adopted son of Kanva his elder uncle, of Apālā daughter of Atri having skin disease and propitiating Soma by her sūkta and of Urvaśi and Purūravas, as detailed by Shadgurusishya, may have been current in Rigvedic days or may have been conceived in the days of the Brahmanas and fitted on to

the various suktas or individual verses.

R. IX 67 is a unique hymn. It consists of 32 verses. The first three are ascribed to Bharadvaja, the next three to Kāsyapa and so on to Gautama, Atri, Viśvāmitra, Jamadagni and Vasishtha who form the well known Sapta-Rishis identified later with the seven stars of the Great Bear. The last eleven verses are ascribed to Pavitra Vasishtha. And the most remarkable thing is that the last two verses declare that he who recites or learns these Pāvamānī hymns of the Rishis will obtain all the blessings on this earth. These two verses are apparently modern in language and are in the nature of Phalasruti at the end of the Bhagavadgitā. It seems clear that the Saptarshis were already revered before the end of the Rigvedic age and that, therefore, this collection of verses by them into one sukta was made by a descendant of Vasishtha named Pavitra, probably an assumed name.

V RIGVEDIC METRES

The whole of the Rigveda is, as we have seen, in verse; but like Homer's Iliad or Milton's Paradise Lost it is not in one metre. With multiplicity of authors, there is naturally a multiplicity of metres. These metres are detailed in the work of Pingala which is considered to be a Vedānga. But it is of a very modern date, for it describes metres of both Vedic and classical Sanskrit. The subject is, however, succinctly yet fully dealt with in Kātyāyana's Sarvānukramaṇī and we give below the details therein given with a few explanations and observations of our own.

The Vedic metre depends solely on the number of syllables in it; there is no restriction as to the shortness or length of the several syllables, a restriction which grose in classical Sanskrit, Macdonell thinks that the foot usually ends in an iambic; but this is not the case. Certain restrictions seem to be observed in many Anushtup verses, and these were subsequently followed invariably in classical Sanskrit, as we shall show later on. The short definition of metre given by Kātyāyana viz. "The measure of the number of syllables is metre" (यद्शरपरिमाणं तच्छन्द: Macd. Sarvānukramanī p. 1.) is, therefore, the most proper one. There are fourteen metres in all, the first Gayatri having twenty-four syllables, the second four more and so on in each of the following metres as under :--

71.	Gāyatrī	24	Syllables	8.	Atijagatī 52	Sy	llables.
	Ushnik			9.	Śakvarī	56	,,
7 3.	Anushtup	3 2	,,	10.	Atiśakvarī	6 0	,,
' 4.	Bṛihatī	36	,,	11.	Ashti	64	,,
5.	Pankti	40	"	12.	Atyashti	68	,,
6.	Trishtup	44	,,	13.	Dhṛiti	7 2	,,
7.	Jagatī	48	"	14.	Atidhṛi t i	76	,,

Gāyatrī has three feet of 8 syllables each, while the rest have four feet of 7 or 8 &c. syllables. But Pankti has apparently five feet with 8 syllables and the last Atidhriti with 76 syllables has apparently no feet at all. There is one verse only of this metre. The first seven are the important metres, Gāyatrī, Trishṭup and Jagatī being more important and Trishṭup with four feet of 11 syllables each being the most important, nearly two-fifths of the Rigvedic verses being in this metre. Like other Vedic matters the Rigvedic metre was also scrupulously examined by the ancient Āchāryas and verses in each metre counted. The numbers, given in Chhandonukramaṇī of Śaunaka, of verses in each metre are, as follows, "in the Śākala recension of the Rigveda."

1.	Gāyatrī	2467	8.	Atijagatī	17
2.	Ushnik	341		Sakvarī	19
3.	Anushtup	855	10.	Atiśakvarī	9
4.	Brihatī	181	11.	Ashti	6
5.	Pankti	312	12.	Atyashti	84
6.	Trishtup	4253	13.	Dhriti	2
7.	Jagatī	1348	14.	Atidhitir	1
		9747			138

Verses with one foot only	6 :	
" two feet only	17	
Prāgātha Bārhata metre	194	
Kākubha metre	55	
Mahābārhata metre	25 7 °	

Grand Total 10414

These totals are given according to the figures given in the Chhandassankhyā; but there are some discrepancies on actual calculation and scrutiny, as noticed by Macdonell. Perhaps this enumeration simply follows what Kātyāyana and others had stated in their detailed Anukramanīs as the words used at the end are "as stated by Rishis" The total number of verses or Riks in the Rigveda is, as stated in a previous chapter, 10580½ and the difference in this and the above total is very small and is probably due to the omission of some verses which are of doubtful metre.

The Vedic poets like all other poets were not, however, hide-bound in the matter of metre and they sometimes used one or two syllables less or more. Such cases have been noted and have been given different names. The sūtras of Kātyāyana on this matter are "ऊनाधिकेनेकेन नियुद्धिजो । द्वास्यां विराट्स्वराजो ।" "With one syllable less and more the kinds of metres would be Nichrit and Bhūrij; with two they would be Virāt and Svarāt". Thus Gāyatri with 23 letters would be Nichrid-Gāyatrī and with 25 it would be Bhūrij Gāyatrī. Pankti again with 38 letters (40-2) would be Virāt-Pankti and with 42 (40+2) it would be Svarāt-Pankti. It would also be in this case (44-2) Nichrit-

Trishtup. We have already referred to the rules by which conjunct consonants ending in τ and τ and some others have to be split into two syllables and in such cases the apparent shortness of a foot by one syllable can be removed.

There are other varieties with different numbers of feet and with different numbers of syllables such as Kakup, Pada-Pankti, Vardhamāna, Pratishthā, etc. Three feet with eight syllables and a fourth with six is an example of this kind and perhaps it is the origin of the simple Ovi metre in Marathi. There are again Prāgāthas such as Bārhata, Kākubha, and Mahabārhata. The word Prāgātha is interpreted by the commentator as meaning 'mixed'; but perhaps the Rishi Pragatha gave his name to this mixed metre. These different varieties show that the Vedic poets delighted in varying the metre in the fourth foot or in adding a fourth foot with less number of syllables or in using mixed-metred feet in their versification, thus destroying the monotony of the song. The last verse in a sūkta is usually of a different metre, an artifice adopted to destroy monotony and also to indicate the end -a practice followed by classical Sanskrit epics.

As stated above, the Tristup is the most favourite metre with the Vedic Rishis, there being 4253 verses in this metre out of the 10500 and odd in the whole Rigveda. The Zend Avesta also contains many verses in this metre of four feet with 11 syllables in each. Classical Sanskrit poets also took up this metre with the additional restriction of fixed short.

and long in the 11 syllables, borrowed from the most musical of the Vedic verses. Thus यहान यहामयजन्त देवाः of the Purusha-sūkta would be यहान यहां अयजन्त देवाः of classical epics. Trishtup, therefore, is the Indravajrā and Upendravajrā metres of classical Sanskrit. The Jagatī metre with 12 syllables in each foot became the Vamsastha and the Śakvari, very favourite with Sāma singers, became probably the Vasanta-tilakā of modern Sanskrit.

The Anushtup, however, became popular with writers of long poems, indeed of extensive works on any subject in later Sanskrit, because the restriction therein on long and short of syllables is very limited. The seventh syllables of the second and the fourth feet are to be short; so also the fifth of the first and the third. Valmīki is said to be the first poet (आयक्ति) not of Vedic times but of classical times, because he was the first to utter the first verse in classical Anushtup with these two restrictions viz. 'मा निवाद प्रतिष्ठां त्वमगमः शाश्वतीः समाः । यत्कौँचिम्थुनादेकमवधीः काममोहितम् ॥' The Anushtup metre has no other restrictions no doubt; but for musicalness certain other musical combinations of three syllables, called Vipulā etc., by Pingala are always to be seen in the best verses of Vyāsa and other writers. Vyāsa, however, in the Mahābhārata, often follows the license of Vedic poets in his Trishtup verses e. g. आपूर्यसाणमचलप्रतिष्ठम् ॥ (भगवद्गीता

The names of the Vedic metres are, as may) naturally be expected, very ancient. The seven most common are mentioned in R, X, 130; (also in X 14-16)

and their invention is attributed to gods. Gāyatrī is said to be born from Agni and Ushnik from the sun; Anushtup from Soma, Brihatī from Brihaspati, and Virāt from Maitrāvaruṇa. Indra invented Trishtup, which is consonant with the fact that Indra is most praised in the Rigveda and Trishtup is the metre most used. Finally, the Viśvedevas created Jagatī. Śakvarī is also referred to in another place as popular with singers. "The Vasishthas gave strength to Indra by their loud chants in Śakvarī" (यच्छक्ररीषु वृहता रविगद्ध अपनाद्धता वो विस्तिष्टः ।). Sapta Chhandānsi or seven metres are mentioned often in all the four Sanhitās, as also their names. Indeed Chhandas is a word which goes back to the Indo-Iranian period, appearing as Zend among the Iranians.

VI RIGVEDIC GODS

The hymns of the Rigveda are mostly in praise of deities which were probably originally conceived as the presiding deities of natural phenomena. These deities are, properly enough, fire, wind, water, rain and lightning, sun, moon and so on. Many of these deities with the addition of Yama, the Lord of death, are common to the Iranian and the Indian Aryans. Yama is thus Yima with the Iranians and Mitra is Mithra the sun, while Agni (Atash) is zealously worshipped by both. Indra, however, is the peculiar god of the Indo-Aryan people. The Iranianand Indian Aryans, forming originally one family, subsequently became deadly enemies. Probably they quarrelled over some philosophical tenets and separated. Indra hence is a demon with the Iranians; Ahura (Asura), on the other hand, is the highest god with the Iranians, but Asura is a demon with the Indian Aryans. The word Deva, in Vedic Sanskrit again, means a god but it means a demon in Persian. The word Asura, however, appears in the Rigveda in a good sense also namely "the giver of life or adorable." This sense is, no doubt, a survival from those times when the Iranian and Indian Aryans were one people or lived together amicably.

The Rigvedic Aryans were thus originally polytheistic; but their polytheism like that of the Iranians soon changed into monotheism and they soon came to entertain the notion that there is only one God, of whom the many gods are mere different names or descriptions (R. I, 167 and X, 114). Who this one God. is, is sometimes differently conceived. He is conceived sometimes as the Sun, sometimes as Indra and sometimes as Varuna who is looked upon as the upholder of Rita or order and truth; sometimes as Prajapatithe creator of all living beings. He is also called Purusha. The highest God, in later literature, became, however, Vishnu, and sometimes Siva, both being Rigvedic deities but not much praised in the Rigveda. This monotheism of the Rigveda subsequently took the form of pantheism, several suktas identifying the highest God with the whole universe (see X 121). Dr. Macdonell thinks that the tenth or the last verse in this Hirrnyagarbha sūkta is a later addition. But it cannot be later than the compilation of the Rigveda. For the idea contained in this sukta is the same as that contained in the Purusha sükta (X 90)* The later philosophy of the Upanishads which identified the highest deity now called Brahman with both manand the universe had thus its foundation in the speculations of the Rigvedic Rishis.

The attributes of the Rigvedic gods are both. Indian and Arctic, except Ushas who is solely Arctic. The goddess Ushas or the Dawn can only be properly conceived, if we believe that her attributes are Arctic in their origin. The short-lived dawn of the Panjab cannot have given rise to these attributes.

^{*} स भूमिं विश्वतो वृत्वात्यतिष्ठदशाङ्गलम् ॥ पुरुष एवेदं सर्वम्

These fitly appertain to the dawn as it is seen in Arctic regions as shown by B. G. Tilak*, circling the horizon for days together. The highly poetical hymns in praise of Ushas with their concepts had their origin undoubtedly when the Indo-Aryans were beyond the Himalayas. The twin-gods Asvins, however, in our view are not well explained either by European or Indian scholars. Pūshan and a few other gods also defy convincing explanation. The Rigvedic gods had become an enigma even in the days of the Brahmanas naturally enough, as hundreds of years had elapsed by their time. The mythological stories alluded to in the Rigvedic hymns about the several gods also became unintelligible. Even in the days of Yaska there were two schools of explanation viz. the historical and the natural. With the former school thus, Indra was the slayer of Vritra; and the releaser of cows, a real Aryan hero who conquered Indian Dasyus; with the latter he was nothing more than the deity of clouds, with their thunder and lightning and down-pour of rain. Modern researchers again see the origin of Vedic mythology in the striking aspects of the starry heavens and of the sun and the moon. In our view all these three schools are together correct. The mythology of the Rigvedic

^{*} Tilak has in Orion detailed four peculiarities of the goddess Dawn as depicted in Rigvedic hymns. 1 Before the sun comes above the horizon, the dawn lasts several days. 2 Ushas is always spoken of in the plural, their number being thirty. 3 Taese thirty parts are not distinct but continuous. 4 These revolve round the horizon and come to the same point in twenty-four hours.

gods had its origin in all the three viz., history, personification of nature and poetical allegories based on the position of groups of stars and the appearances of the sun and the moon as they move among them. The Vrishākapi sūkta thus can well be understood on the astronomical basis as explained at length by B. G. Tilak and supported by Greek mythology. But after all, these theories must be treated as probable explanations only and not final truths. Indeed we have to realise that finally true explanations are now not possible, as urged even by the ancient sage Kautsa, a predecessor of Yāska, some thousands of years ago (Macd. p. 61). It is indeed difficult to see how correct explanations of mythological stories or of difficult words* uttered about 4500 to 3000 B.C. could be given by thinkers of 2000 B. C. or of 200 B. C., much more by Sayana or by Roth the modern German Pandit with his historical sense or the knowledge of the Avesta which itself has become difficult to understand even for Parsi scholars. These observations are made only with reference to certain disputed questions such as whether Nasatya means "not untrue" or "born of the nose" and so

^{*}We may note here that a very laudable effort was being made at Indore under the patronage of His Highness Tukojirao Holker, the retired Maharaja of Indore, to prepare a directory of Vedic words with their different interpretatious given by 1 the Brāhmaņas, 2 Yāska, 3 later writers, 4 Sāyana, 5. Sw#ami Dayanand and 6 modern scholars so that Vedic students may see at a glance the different meanings assigned in their historical order. This work, however, remains unfinished.

on. On simple and general matters, the Rigveda is not a sealed book and many unquestioned or indisputable facts may be gleaned from it, as we shall presently show.

We will close this chapter with quoting the conceptions of Āśvalāyana, Kātyāyana and Yājnavalkya, successively ancient Indian thinkers and sages on the subject of the Rigvedic gods. In his Grihyasūtra, in the chapter on Tarpana or libations of water (III. 4) Āśvalāyana gives the Rigvedic gods as follows:—

देवतास्तर्पयति । प्रजापित ब्रह्मा वेदा देवा सर्वाणि च्छन्दासि ओंकारो वषट्कारो व्याहृतयः सावित्री यज्ञा यावापृथिवी अन्तरिक्षं अहोरात्राणि सांख्याः सिद्धाः समुद्रा नयो गिरयः क्षेत्रोषधिवनस्पतयः गन्धर्वाप्सरसः नागा वयांसि गावः साध्या यक्षा रक्षांसि भूतान्येवमन्तानि ॥

To all these* may be found hymns or verses addressed in the Rigveda. Kātyāyana who precedes Āsvalāyana giving a short synopsis on the subject says, "The gods are of three orders from their place, the earth, the sky and the heavens" (पृथ्वी अन्त्रिशं योः), respectively represented by Agni (fire), Vāyu (wind) and Sürya (sun). The Vyāhritis (Bhūh, Bhuvah, Svah) are also three. Prajāpati is the god of the three (Vyāhritis) combined. Omkāra represents all the gods together or the highest God or Brahman or any one god or the divine soul in man. Other gods residing in the three places are different forms of the three Agni, Vāyu and Sūrya. The different praises (hymns) mention different names for different ritu-

^{*} There is however, so far as we have seen, no hymn addressed to Sāńkhyas. This word and idea is post-Vedic.

als. Or there is only one Deity, viz., the Great Soul. He is called Sūrya as he is the soul of all beings; says a Rishi 'He is the soul of the moving and the stationary (सर्वो आत्मा जगतः तस्युषश्च). All other deities are his manifestations as stated in the verse "He is called Indra, Mitra, Varuṇa, Agṇi." Lastly, in a very eloquent passage in the Brihadāraṇya Upanishad where Yājñavalkya, while finally saying that there is only one God pervading and upholding the whole universe, first enumerates the gods as thirty three viz. 8 Vasus (earthly deities), 11 Rudras (deities of the sky) and 12 Ādityas (deities of heaven) with two more Indra and Prajāpati. In this classification Indra and Prajāpati have a separate position. (Vishṇu is most probably included in the Ādityas and Śiva in the Rudras).

The Rishis sometimes invoke these gods in pairs as Indragni, Agni-shomau, Mitra-Varunau. Soma is both moon and the herb which gave the oft-praised exhilarating drink to the ancient Indian and Iranian Aryans in their common abode beyond the Himalayas. What this herb was, post-Vedic Indians did not know; nor can it be stated now with any certainty. The Soma plant must remain like many other Rigvedic things a mystery. The Soma juice so much loved by Indra or more properly by the Indian Aryans flowed from the herb when pounded with a stone and this flowing juice is deified as Pavamāna Soma and praised in several hymns put together in a special Mandala of the Rigveda, the ninth, as stated before.

"Indra is the favourite and national god of the

Vedic Indian (Mac. p 84) and more than one-fourth of the Rigveda is devoted to his praise." He is god of thunder and clouds as also of battles; and drinking Soma he delivers attacks on the enemies of the invading Aryans. He is thus pre-eminently the god of the conquering Indo-Aryans. Agni is the next important god who is praised most. He probably came from beyond the Himalayas where extreme cold emphasised the importance of fire. He is a god both of the Iranian and Indian Aryans; so is naturally Sūrya the sun whose other names in the Rigveda are Mitra, Savitri and Pūshan. Varuna comes next in importance, the deity presiding over Rita or order and truth, an ancient Aryan god. How he became in Puranic times the god of water and ocean remains to be explained. He is, therefore, the presiding deity of the west. Ushas is an Arctic deity as stated before typifying early dawn; but strangely enough she has no counterpart among the Iranians nor apparently among the Greeks. So also the Asvins or twin morning deities. They cannot be the evening and morning Venus or Mercury as is sometimes supposed; for they are always spoken of as morning-deities ushering in the Ushas. They must be Arctic in origin though they defy explanation. Possibly they may be Venus and Mercury when both are seen in the morning before the sun comes above the horizon or before even the dawn of the temperate zone. They are looked upon as physicians. They also succour a person in distress. Bhujyu, foundered in the ocean.

was rescued by them by sending their own golden boat. X 65 mentions most gods together viz. Agni, Indra, Varuṇa, Mitra, Aryaman, Vāyu, Pūshan, Sarasvatī, Ādityas, Vishṇu, Maruts, Svar, Brihat, Soma, Rudra, Aditi and Brahmaṇaspati. There are some minor gods also such as Bhaga, Brihaspati, Tvashtri, Trita Āptya &c. which are not all explainable. So also are Ribhus. All the gods are often invoked together as Visvedevah.

VII VINIYOGA OR APPLICATION OF HYMNS

Allied with the three preceding subjects viz.

Rishi (author), Chhandas (metre) and Devatã (deity) of a sukta or rik (which it is considered obligatory to recite first when reciting any rik or sūkta) is the subject of Viniyoga or use of the particular sūkta or rik. The various Anukramanīs give the Rishis, Metres and Deities of the hymns, but do not give their Viniyoga. But the reciter of a sūkta or rik has to pronounce its Viniyoga or use also. This information is given in Saunaka's Rigvidhāna as also in Brihad-Devatā. The sūktas are to be recited in particular sacrifices and at particular rituals or ceremonies and every sūkta, nay rik, has its Viniyoga so fixed. The god praised or the nature of the praise usually determines the Vinivoga. But this is not always the case. For the sùktas and the riks acquired the status of Mantras in course of time. Mantras, according to Mantra Sastra, are efficacious by their sounds and not by their meanings. Hence very often, the Vinivoga has no connection with the meaning of the verse or hymn. are certain indications or signs called Lingas which determine such Vinivoga. The Brahmanas as well as the Srauta and Grihya Sūtras declare what Mantra is to be recited at any particular sacrifice or ritual in it or any ceremony and these were the first Viniyogas or assignments which thus go back to the period of

the Brāhmaṇas. Besides these, there are other uses assigned in the Rigvidhāna such as for medical purposes or for incantations or for atonements (prāyaschittas) or for japa or repeating. This will sufficiently indicate what Viniyoga means without our entering into further detail.

NOTE—PURUSHA-SŪKTA

The-Purusha Sūkta (x 90) has, it seems to us, been wrongly understood by European scholars. The title is translated by Macdonell as 'the hymn of Man,'; but it is more properly the hymn of the all-pervading God. Purusha in this hymn is God as stated by Sayana. When in the first verse he is described as of thousands (not thousand) of heads, thousands of eyes and thousands of feet, the all-pervading nature of God is hinted at, the heads, eyes and feet of all creatures being His, as is clear from the very next verse which says "all this (present) is Purusha and whatever existed before and will exist hereafter (पुरुष एवेदं सर्वम् पद्भतं यच्च भन्यम्।). Again in the next verse it is said, "This is His greatness, nay it is greater than this (world). For all created things are only a quarter part of Him; the remaining three-fourths are immortal and in the heavens". There can be no doubt, therefore, that this hymn is in praise of the all-pervading God. The idea that this being is sacrificed is indeed novel but it does not show that this being is a giant (Macd. p. 132) and creation is sacrificing by gods of this giant. The thousands of heads, eyes and feet do not constitute Him a giant. For it is further said that from him was born Virāt and from the latter Adhi-Purusha. (who is spoken of as sacrificed). This is the forerunner of the Sankhya and even Vedanta doctrines which place two

stages between the Unmanifest and the Manifest. With the Indo-Aryans every thing was a sacrifice and creation appeared to them as a metaphorical sacrifice. The metaphor's looking upon the Purusha or rather Virāt or Adhi-Purusha as the animal sacrificed indicates that the Manifest is made of the Unmanifest, that God or Brahman is the Upādāna-Kārana of this created world as the Vedāntins maintain It is not out of a void or Śūnya, as some believe, but as the Upanishads explain, out of Himself that God has created this world as a spider weaves a web out of himself (यथोर्जनाभि: etc.). The spring is the ghee of the sacrifice and the summer is its fuel and the Sarad (autumn) the oblation. The first thing born out of this sacrifice was Rik, Saman and Yajuh* This verse is wrongly understood as indicating that the three Vedic compilations were already in existence when this hymn was composed. But this verse does not speak of the Vedic collections made subsequently. It refers in our view to the Riks called Saman or good verses because they were sung, then to Chhandansi, not metres but metrical utterances generally. and Yajus or the sacrificial formula. It indicates no doubt that the distinction had arisen between verses sung, verses ordinary and the sacrificial formulae. Then were born horses and cows, sheep and goats &c. The Brahmin was (born from) his head and the Kshatriya from his arms: the Vaisva from his thighs and the Sudra from his legstypifying the respective occupations of the four primeval castes. The words Mukha and Pada appear twice and hence they must be differently intrepreted. Mukha as head and mouth and Pada as legs and feet. Strangely enough Sayana does not see this twofold meaning. Indra and Agni were born from His mouth the Sun from His eyes, wind from His breath

^{*} ऋचः सामानि जिहरे । छंदांसि जिहरे तस्मायजस्तरमादजायत ।

onse) and the four quarters from His ears. The earth was born from His feet and the heavens from the top of His head. All this description clearly shows that this hymn speaks of the universally pervading Purusha or God and not a giant sacrificed by gods. Indeed the gods are spoken as sprung from Him, Indra, Agni, Sūrya and Vāyu. Sādhyas are distinct from gods and the word pūrva refers to the ancestors in the last verse of well-known Devas.

Prof. V. K. Rājawade, a great Indian Vedic scholar, strangely enough interprets this verse as referring in reality to human sacrifice which was practised by the Rigvedic Aryans (Vividha-Dnyāna Vistāra 1927 April). The sacrifice of creation is not real but only metaphorical and there is no allusion to any actual human sacrifice (see further under White Yajurveda). There are other strange statements in this article of Prof. Rājavade such as the idea that Brahmin, Kshatriya and Vaiśya are words which first appear in this sūkta. These words often appear elsewhere also, though one may concede that this sūkta belongs to the later portion of the Rigvedic period.

VIII RIGVEDA AS HISTORY.

Although not directly connected with the history of Sanskrit literature, the subject of the history of the settlement of the Indo-Aryans in India and the state of their civilization as disclosed in the Rigveda is interesting and it is usual to insert a chapter on this subject in a book of this kind. The Rigveda contains many statements of an unambiguous character which can be made to yield such history. And there are some facts which appear to us to have been wrongly or imperfectly understood by European Vedic scholars. We shall, therefore, try in this chapter to place in short our views on this subject before the curious reader.

The Indian Aryans came to India as a conquering people. All the attributes of their favourite god Indra show this. They conquered the aborigines who are called Dasyus or Dāsas. Their leader was named Vritra and Indra, the Aryan leader, exhilarated by the Soma drink, attacked the strongholds or rather fortified villages of the aborigines led by their chiefs having different names such as Bala, Sambara &c. Vritra may be taken to typify an aboriginal chief, historically considered. Indeed a fight with the aboriginal enemy is usually styled Vritrahatyā (e. g. VII 19-10) in the Rigvedic hymns. VII, 19 alone mentions Suśnu, Kuyava, Chumuri, Dhuni and Namuchi. The conquerors were of the Aryan race, of white complexion and with prominent noses. The conquered were

without noses and black. They were probably of the Dravidian race though the word Dravida does not occur in the Rigveda. (The Dravidian people seem from other sources to have spread from the south which was their stronghold to the north-west corner Dravidian words are still found in the language of the Brahuis of Baluchistan.) The word Arya is, on the other hand, distinctly and often mentioned in the Rigveda. The following Rik (X 38, 3) is important and interesting. "Whoever wishes to fight with us, Oh Indra, whether he be Arya (of our own race), Dāsa (aborigine), or A-deva (not Rākshasa, but in our view an Iranian Aryan, one who does not believe in Deva)" shows clearly that the Aryans often fought amongst themselves, usually with the Dāsas and sometimes with the Iranians. The Adevas were worshippers of fire but not of Devas or Indra while the Dasas worshipped neither fire nor devas. The Dasas most probably worshipped the phallus as they are styled 'Sisnadevah' in the Rigveda. This worship gradually became hereafter the most popular worship of the Hindus who may be looked upon as the descendants of Indo-Aryans and Dasas coalesced into one people. The phallus, however, was later identified with Rudra of the Rigveda who also became the ruler of demons and fiends whom the non-Aryans worshipped.

The Nāgas or Sarpas appear to be a warlike leading people among the Dāsas. They were called so, probably because the serpent was their emblem or

because they acted like serpents, attacking stealthily with great impetuosity. We know from the Zend-Avesta that the Septa-Sindhu or the abode of the Indo-Aryans was smitten by Aingra Mainyu with heat and serpents, a correct description of the land occupied by the Indo-Aryans compared with the land of Iran finally occupied by the Iranians. But serpents must have troubled the Aryans even when these two sections were together, because serpents are abhorred even by the Zends. Johak, an Iranian king, had two serpents issuing from his shoulders which always gnawed at his brain. Even among the Jews, the Devil appears in the form of a serpent. We may believe that some warlike aborigines, like serpents, often attacked the Aryans surreptitiously yet vigorously and hence they waged a merciless war with them, from Indra who killed Vritra in the form of Ahi, down to Janamejaya who went so far as to carry on a war of extermination against them. The Nagas, however, became less hostile and Aryans often married Naga wives. We thus find that the Nagas were admitted to the Vedic pantheon. Who the Gandharvas and Apsarasas were, historically speaking, cannot be well conceived. They too became semi-divine even in the days of the Rigveda. They are described as fair and hence were probably Himalayan people and not of the plains. They too seem to have coalesced with the invading Aryans to some extent (as Urvasī married Purūravas). They are among the lesser Devatas of the Rigveda and have some hymns in their praise.

The Indo-Aryans, as stated before, rose from polytheism to monotheism and from monotheism to pantheism. They early deified mountains and rivers in their polytheism of nature worship. In the hymn (X 75) to the rivers of their land, the poet mentions almost all its rivers. He, of course, begins with the Indus which was the most impressive of them all, the widest and the longest, the Amazon, so to speak, of India, India is the Greek name for the country derived from this very river and Hapta Hindu the seven-riverland is the name given by the Iranians from which Hindustan, the modern name of the country and Hindus, the modern name of the people, are derived. But it is remarkable that the Indo-Aryans never gave this name to their country or to themselves based on this river name, as we shall show further on. seven rivers may be taken to be the Indus on the west with the five rivers of the Panjab and with Saraswatī in the east in addition and Kubhā on the The name Sapta-Sindhu no doubt occurs in the Rigveda but the seven rivers are not there specified. Different scholars enumerate these seven rivers differently, some going to the whole of Asia for them. Having praised the Sindhu in the first four verses of the above noted hymn, the poet next mentions the important rivers to the east of the Indus known to the Indo-Aryans till then. It is curious to find in the fifth verse the several rivers to the east mentioned in order from east to west. Thus we have first the Ganges, next the Yamuna, the Saras-

vatī, the Situdri [Sutlej], the Parushnī [Iravati], the Asikni [Chinab], the Marudvridhā, the Vitastā [Jhelum] and Ārjīkiyā with Sushomā etc. (names not identifiable).* It may be noted that Marudvridha. should be taken to be Vipāśā a name also mentioned in sukta 33 of the third Mandala and in other hymns. In the next verse 6 the western rivers are mentioned as tributaries of the Indus viz., Rasā, Švētyā [Swat], Kubhā, Gomatī and Kramu [now Kabul, Gomaty, and Kurrum] in order from the north to the south. It may, thus, be rightly supposed that the land of the Rigvedic Arvans extended from the Hindukush on the north-west along the Himalayas south-eastwards as far as the Gangetic valley. The most sacred part of it was the Sarasvatī basin, the river Sarasvatī being praised in several Rigvedic hymns. It may be noted that this name may be found among. the Persians also as Haraivaiti, another river, however, in the western part of modern Afghanistan and thus was popular among the combined Aryans when they were north of the Himalayas. The Indo-Aryans settled in this plain region and even progressed eastward along the Himalayas as far as the Sarayu. in Oudh in Rigvedic days, as that river is mentioned in one of its hymns, a name also found among the

^{*}It is remarkable that Panjab has forgotten the Vedic names of their rivers while the less advanced people beyond the Indushave still preserved the Vedic names of their rivers.

[†] Sāyana looks upon these as the seven rivers viz., 1. Ganges, 2. Jumna, 3. Saraswatī, 4. Sutlej, 5. Parushni (Ravi), 6. Marudvridhā (Bias) with Asikni and 7. Arjikīyā.

Iranians as Harayu.

In this land, the Indo-Arvans appear to have come in two stocks and by two routes*. The mythology of the Purānas has, it is well-known, its roots in the Rigveda. The Puranas divide the Aryans into two stocks, the Sūrvavansis and the Chandravansis. Now though these two names are Puranic and find no mention in the Rigveda, there are certain indications in the Rigveda itself that the Indo-Aryans came into India in two hordes by different routes and at different times. This theory was first propounded by Dr. Hornle and was accepted by Sir R. Grierson who has carefully studied the languages of India (Imp. Gazetteer. IV p. 358). He divides Hindi into Western Hindi and Eastern Hindi and the speakers also into two distinct peoples (Census report 1911). Sir H. Risley again took the head-measurements of the people of India at the time of the Census of 1901 and these measurements go to show that there are two Aryan races in India, one long-headed and the other broad-headed. This, in our view, corresponds to the two-fold division of the European Aryans namely, the long-headed Teutons and the broad-headed Celts. The people of the Panjab are long-headed Aryans as also of Rajputana while those of U.P. and Gujarat and the Deccan are broad-headed Now the conclusion arrived at from a consiones. deration of language agrees completely with that from

^{*}We have treated this subject at length in our paper read. before B. B. R. A. S. (Vol. XXIV). We give here its purport.

head-measurements; and Sir H. Risley's and Sir R. Grierson's views put together lead to the theory that while the long-headed or Solar Race Aryans came into the Panjab through the passes of the Hindukush and spread south-eastwards as far as Oudh and the Sarayu, the broad-headed Chandravansi Aryans came later like a wedge, in this settled Aryan population, by way of G lgit and the Gangetic Himalayan valley and coming into the plains spread southwards from Ambala along the Yamunā into U.P., Gujarat and Deccan. Western Hindi is thus found spoken in a triangle with its apex at Ambala and base extending from Gujarat to Jubbulpore (Gujarati being allied to it) and Eastern Hindi is spoken in Oudh, the Panjabi and Rajastani being allied to it (See Census R. 1911). This history of the progress of the two peoples as suggested by considerations of language and headmeasurements is also borne out: by the Puranic accounts regarding the Solar and Lunar dynasties called in the Mahābhārata Aikshvāka and Aila also. The Madra-Kekayas of the Panjab and the Raghukulas of Oudh are solar-race dynasties, while Prayaga was the centre of the Lunar dynasties extending from Magadha on the east through Chedi, Sauraseni, Matsya and Kuru-Pānchāla in the north-west.

This theory of two stocks of Aryans coming into India finds a great deal of support in the Rigvedic hymns. The lunar race geneology begins with Purūravas, Nahusha and Yayāti. These three are mentioned in Rigvedic hymns. It is still more remarka-

ble that the five sons of Yayāti giving their names to five peoples are mentioned together in R. I. 108-8 (यद्भितामी यदुष्ठ जुनेशेषु यद्दुष्ठ ष्यन्तुष्ठ प्रश्न स्थः॥). The clubbing together of Yadu and Turvaśa here and elsewhere and of Anu, Druhyu, and Pūru shows the truth of the Purānic legend that the former two were sons of Yayāti by Devayānī and the latter three his sons by Sarmishthā. The Yadu-Turvaśas had no kingdom while the Pūrus became prosperous and founded a kingdom in the Ambala region on the banks of the Sarasvatī to which territory their representatives the Kurus eventually gave their name. The Kurus are not mentioned in the Rigveda like the Pūrus; but they are mentioned very often in the Brāhmaṇas.

Having settled in this land and thrust a wedge, so to speak, in the centre of the previously settled Aryans (the Sūryavansis), these second Aryan invaders tried to conquer the former in the west and in the east. The famous Dāśarājna fight in the Rigveda referred to in three important hymns of the seventh Mandala (18,19,33), was fought between Sudāsa king of the first Aryans assisted by Tritsus, descendants of Vasishtha and ten kings, five of the second Aryan peoples and five of their non-Aryan allies. It seems clear that European scholars are under a misconception as to who Bharatas were, who are referred to so frequently in the Rigveda here and elesewhere and are hence unable to rightly understand this Dāśarājna battle. The Rigvedic Bharatas are not the Bharatas of the Mahābhārata, the descendants of Bharata son of Dushyanta, who were lunar race Aryans. The Satapatha Brāhmaṇa distinguishes this Bharata as Daushyanti Bharata. Bharata who gave his name to the Rigvedic Bharatas was a solar-race king, a grand-son of Manu, described as the king who gave his name to this land viz., Bhāratavarsha.* Another Purāṇa states that Manu himself was called Bharata† from his feeding the people and Yāska states that Bharata is the Sun himself.

The Bharatas led by Viśvāmitra over the Vipāśā and the Satadru were thus the first Aryan invaders of solar race who first occupied the Panjab and spread further as far as the Sarayu. The people of this country were thus called in Rigvedic days Bharatas, as clearly shown by Viśvāmitra's verse (R. III 33-13) "This Vedic prayer by Viśvāmitra protects the Bharata peoplet Bharata became a synonym eventually of an ordinary Kshatriva and even a Brāhmin (Yāska). The priests of these solar race Arvans or Bharatas were Viśvāmitra. Vasishtha, Bhāradvāja and Gautama, Rishis associated with the solar kings of Ayodhyā and Mithilā even in the Rāmāvana. Sudāsa was a solar race king (this name appears even in the Puranic genealogy of the solar race), a king of the Bharatas and he with them was about to be defeated by the ten kings opposed to him, when Vasishtha by his prayer to Indra secured

^{*}तेषां च भरतो ज्येष्ठो नारायणपरायणः। विख्यातं वर्ष-मेतत् नन्नाञ्चा भारतम्र त्तमम्।१७। Bhāgavata XII

[†] वर्षोयं भारतो नाम यत्रेयं भारती प्रजा । भरणाच्च प्रजानां वै मनुर्भरत उच्यते ॥ ‡ विश्वामित्रस्य रक्षति ब्रह्मेदं भारतं जनम् ।

victory to Sudāsa [III. 33] " The Bharatas were like cows without herdsmen but Vasishtha went before them and led them to victory."* It seems Macdonell interprets this hymn wrongly when he says that the Bharatas were defeated by Sudāsa and Tritsus assisted by the invocations of Vasishtha [p. 155] or when he says that Bharatas were among the enemies of Sudasa (p. 154). Viśvāmitra could not have in that case said that his prayer protects the Bharata people. The enemies of Sudāsa and his Bharatas in the Dāsarājna battle were the five Aryan lunar peoples Yadu-Turvasas etc., and their five non-Arvan allies as detailed in VII 18, 7 viz., Pakhtas, Bhalānas, Alinas, Vishāninas and Sivas. Of the Arvans are mentioned Turvasas. Matsyas, Druhyus, Anus and Pūrus (13 and 14). It is not easy to understand this hymn correctly and completely throughout its length; but it seems that Sudāsa safely crossed the Parushni, while when Turvasas tried to follow him they were drowned. In the fight "6000 Druhyus and 600 Anus lay dead on the battle-field." Indra and Tritsus helped Sudasa Paijavana who made gifts for the victory which are lauded at the end of the hymn. It is this fight which is called Dāsarājna in R. VII 33, wherein Sudāsa with his Bharatas was victorious. In R. IX 61 it is said that "for Divodāsa Indra smote Yadu and Turvaśa." This was probably the first attempt of the Yadu-Turvasas to conquer the Panjab. The attempt in the days of his

^{*} दण्डा इवेद्रो अजनास आसन् परिच्छिना भरता अर्भकासः अभवच पुर एता वसिष्ठः आदित्त्रित्मुनां विशो अपथन्त ॥

son Sudasa was the next and the greatest attempt by five lunar tribes with the aid of five aboriginal tribes. R. IV 30, 17-18 show that Turvasa and Yadu combined also attempted to advance eastwards; but they were foiled beyond the Sarayu by Indra who smote Arna and Chitraratha. The Turvasas eventually became extinct (Satapatha) and Yādavas and Bhojas settled eventually in Saurasena territory which according to the Rāmāyana was also first under solar kings (being conquered by Satrughna from Madhu Rākshasa). The Pūrus, however, hereafter settled firmly on both the banks of the Sarasvasti and prospered. They are located there in the hymn to the Sarasvatī (R. VII 96). They indeed so far prospered that the word "Pūru," like Bharata, later became synonymous with an Aryan soldier or priest. These Pauravas, in later time still, conquered the Panjab, probably before, but certainly in the days of, Janamejaya who is said in the Mahābhārata to have conquered Takshasilā and hence it is that the Pūrus were found there in Alexander's time. These lunar Aryans, it may finally be stated, were of the same Aryan race though of a different stock, spoke the same language and worshipped the same deities. It is hence that the Vedic poet quoted in the beginning beseaches "Indra and Agni to come to him and drink his Soma potation, even though they might have been enjoying a feast among Yadus and Turvasas, Druhyus, Anus and Pūrus."

Rigvedic hymns thus show that the first Aryans who entered the Panjab through the passes of the

Hindu-Kush were called Bharatas and settled there with their Rishis viz., Vasishtha and Visvāmitra, Bharadvāja and Gautama, the latter being Angirasas. It is hence that the word Bharata frequently appears in the sūktas of their Mandalas III, VII and VIII. In his Vedic Index, Macdonell properly observes that the Bharatas are spoken of chiefly in Mandalas III and VII; but he expresses a surprise that they are associated with Divodāsa and with Bharadvāja in R. VI. But Bharadvāja Āngirasa is also a solar race Rishi and he properly associates Bharatas with Divodasa a solar race king. Even fire has got the name Bharata, being kindled by king Bharata (R. VII 8, 4.)* Agni is frequently given in the Rigveda the name of the king who first kindled him in India. In this verse the king Bharata must be taken to be the solar race Bharata. Satapatha remarks on this verse that Pūru here is the name of a demon and not the lunar race king. Dr. Macdonell observes on this in his Vedic Index that in the days of Satapatha Pūru, the Aryan king, had already been forgotten. But this is clearly a mistaken It is impossible that the writer of the Satapatha could have forgotten Pūru whom the later Purāna writers remembered as a son of Yayāti. The fact is that Pūru here cannot be Pūru the lunar race king. If Bharata is taken to be Dushyanta's son, he is a descendant of Pūru after some generations and cannot, therefore, be his contemporary; nor can he be

प्रप्रायमित्रिर्भरतस्य ग्रुण्वे वियत्सूर्यो न रोचते बृहद्भाः।
 आभि यः पुरुं पृतनास्च तस्थी सुतानो वैच्यो आतिथिः ग्रुशोच॥

suppposed to have fought with him. If Bharata is taken to be the solar race king, grand-son of Manu, he cannot even then be a contemporary of the lunar race king Pūru. The only alternative is that Bharata, a solar race king, defeated Pūru a demon, that is, an aboriginal chief, when he conquered the Panjab.

To resume, it is clear from several Rigvedic hymns that Bharata, a solar race king, first conquered the Panjab and gave his name to the land and the These Bharatas are frequently mentioned by Viśvāmitra and Vasishtha, their Rishis, as also by Angirasas, notably by Bharadvaja. These Bharatas gradually occupied the country as far as the Sarayu in Oudh. The lunar race Aryans came subsequently via Gilgit and the Gangetic valley into the region of the Sarasvatī where the Pūrus settled and prospered. The Yadu-Turvasas and Anus and Druhyus, lunar race tribes, tried to conquer the Bharatas in the west and the east but failed, being signally defeated. They appear to have thereafter spread along the west coast of the Jumna southwards as the Chedis are also mentioned in the Rigveda. In the days of the Brahmanas the Kuru-Pānchālas became famous. The Kanva family seems to be the family priests of the lunar race, a connection mentioned even in the Mahābhārata in the story of Dushyanta and Sakuntala.

These are the few historical facts gleaned from a few stray statements in the Rigvedic hymns, chiefly religious as they are and sung in praise of Vedic gods. There is no reference to the Mahābhārata fight

in the Rigveda nor to Śrikrishna naturally enough, as it was compiled in our view before both of them. There is, however, a hymn to rain in X which is attributed to Devāpi said to be an uncle of Bhīshma, a Mahābhārata hero. There is also a reference to Somaka, son of Sahadeva, who is presumably the Pānchāla king of the Brāhmanas. Finally, there is a reference in X (93, 14) to Rama who is, according to our view, the hero of the Rāmāyana though Macdonell thinks that the name is that of a Rishi. But its being mentioned along with the name of Vena makes it certain that it is the name of a king. The Rigveda has, it seems to us, still to be studied carefully for history. The significance of the Rishi and the thoughts he gives expression to, the legends and kings he mentions, even the words he uses, have importance in this connection. The word Asura, for example, has two senses in the Rigveda and it would be interesting to note which Rishi uses it in its higher sense. The Danastutis have also an importance of their own and the kings mentioned must be traced out in Puranic stories. It is, however, to be admitted that not much is to be expected even from this study. Indeed the Aryasamājists hold that Rigvedic hymns contain no historical information, nay that they must be interpreted on the basic idea that no historical persons are mentioned therein. Bharata, Sudasa, Divodasa and Pijavana, Purukutsa and Trasadasvu are not names of historical persons but are words meaning something else. This view, however, goes

too far and taking the natural view that even the Rishis could not help referring to historical facts and persons of their times, the history of the Aryan advent into India as sketched above is, we think, plainly indicated in the Rigvedic hymns.

Proceeding to sketch the social condition etc.. of the Rigvedic Aryans, we may at once remark that they seem to have come into India with the incubus of caste upon them. Like the Vedas, however, the castes were three only in the beginning, the fourth Sudra caste being added later in the Panjab itself, and before the close of the Rigvedic period (the four castes being distinctly mentioned in the Purusha-sūkta). The three castes were, originally, occupational as with the Iranians and were not air-tight compartments. There was no restriction on marriage, the progeny belonging to the caste of the The kings fought, the Brahmanas served at sacrifices and the Vaisyas cultivated the land. The word Vis meant the squatter or settler and he paid taxes to the king. The hymn to be recited at the coronation of kings (X 173,1) is interesting. The word for the nation was Rāshtra and the nation elected its king who it is prayed "may never be displaced from the Rashtra, being liked by the people".* Of course the Aryan nations were many and small and often fought among themselves. The Aryan warriors fought from cars or Rathas like all ancient warlike people, Greeks and others. The Vedic Aryans seem to

^{*} विशस्ता सर्वा वांछंतु मा त्वद्राष्ट्रमधिभ्रशत्।

be well advanced in arts. They could fashion Rathas or cars which was an interesting process, carpenters felling trees and fashioning cars out of their wood, a process affording a favourite simile even for the creation of the world. One Rishi exclaims "Where is the carpenter of this creation and what trees did he cut'. The simile is often taken for the composing of hymns. There must have been iron tools for this work, though Macdonell thinks that bronze ones were used. Ayas is mentioned in the Rigveda and the Panjab contained and contains still iron mines. It is inexplicable how Macdonell remarks that "these two metals (silver and iron) are not found in any quantity in the Northwest of India" (p. 151). Gold was of course well known, being found in plenty in the Indus and other rivers and on the surface of the Tibetan Himalayan slopes. Gold was used for ornaments as also as medium of exchange. Brahmins got gold and cows and sheep and slaves as Dakshina at sacrifices. There is no mention of coin, however, and when a poet sings that he who gives "a thousand" as Dakshinā goes to heaven, it is probably a thousand gold pieces of a fixed weight.

The Indo-Aryans unquestionably knew the sea viz. the Arabian sea and there are many references to it, such as in X 123-8, 125-7, 142-8, though Macdonell thinks that they did not. Sindhu is, no doubt, a word both for the sea and a river. But Macdonell thinks that the broad Indus was like the sea to the Indo-Aryans. The argument urged for

supporting this view is the usual non-mention argument: "No mention is made of the numerous mouths of the Indus as also of fishing. The word which later is the regular name for sea, the Samudra (collection of waters) seems to mean, therefore, the lower course of the Indus which after receiving the waters of the Panjab is so wide that a boat in mid-stream is invisible from the bank" (p. 143). But this view is not supportable. In the well-known Rik (R. X 190, 1) ततो राज्यजायत ततः समद्रोऽर्णनः ।. Samudra with the addition of Arnava must mean the ocean. Then again Bhujyu when rescued on the sea by the Asvins was for some days in the waters. Moreover, there seems already to be intercourse by sea between the Panjab and Mesopotamia, as stated before, though it seems probable that Sind was not yet settled by the Aryans in the days of the Rigveda. The ocean was known to adventurers who went for trade with other countries by the sea, even Aryan kings like Bhujyu going on the sea. It indeed appears that adventurers went even eastwards and saw the eastern sea; as one Rik distinctly speaks of the eastern and western seas (X. 136, 5. उभी समुद्राना क्षेति यश्च पूर्व उताररः)

That portion of the Indus which lies in the Panjab, viz. from its emergence from the Himalayas to its entering into Sind, passes through a very fertile country with very many useful products and it has been highly praised, being the home of the Aryans. These things are noted in a happy manner in a verse of the hymn to the Indus (X. 75-6,8)* The

स्वश्वा सिन्धुः स्ररथा स्ववासा हिरण्मयी सुकृता वाजिनीवती ।
 ऊर्णावती युवती सीलमाबस्युताथि वस्ते सुभगा मधुष्टथमा

products were good horses, good cars, good garments, gold, corn, good wool and honey. The Indo-Aryans had plenty of fine cloth, the art of weaving which, it is said, they probably learnt from the Dravidians. Fine clothes are spoken of in hundreds of places in the Rigveda. But it remains to be seen whether cotton cloth was known. Herodutus said that in India wool grew on trees. This shows that the Aryans in their abode beyond India knew wool only. Clothes of barks of trees, flexible like cloth, must also have been known.

The Indo-Aryans were a highly civilised society even then; truth and order being prized, adultery abhorred and theft and robbery looked upon as non-Aryan. But they were a conquering people and seized the lands and cattle of the non-Aryans and even made them slaves like the Greeks or the Germans. Like the latter they were fond of dice, one hymn depicting the sad condition of the gambler who had lost all. When Yudhishthira in the Mahābhārata is shown as refusing to decline an invitation to a game at dice and staking himself, his brothers and his queen after having lost his kingdom (it being considered dishonourable to retire when there was still something to stake), it is not an imaginary scene depicted by a poet, but a historical fact of the Rigvedic times. Parents and elder brothers had absolute power of disposal over children and younger brothers and a wife was equally a chattel as in the west. The story of Sunahsepa, a boy sold by his father for some cows to the son of Harischandra for the purpose of being sacrificed to Varuna,

is supported by a Rigvedic hymn.

The marriage customs of the Vedic Aryans may be shortly described as follows. The father gave away the girl in marriage, as daughters were, like his slaves, his property. They were married when fully grown up. It was believed that three gods Soma, Viśvāvasu Gandharva and Agni enjoyed the girl before her marriage with man. The marriage was performed in the presence of fire to which there was offered a marriage sacrifice and the married couple walked seven paces round it. The bride was fit for consummation and the consummation took place with a Vedic prayer (X, 184). Indeed it seems that sexual intercourse was a formal and religious act and this prayer was offered in order that proper progeny might be born. The bride was sent to the bridegroom's house with many presents as dowry and in a great procession with music. All this is woven in the marriage hymn which describes the heavenly marriage of Sūryā, sun's daughter with Soma, celebrated with heavenly music (X 85). The Indo-Arvans were a fighting conquering people and their usual prayer to the gods was for valiant sons. They also prayed for cows, horses, plenty of corn and wealth.

The wife was the mistress of the house, though she was her husband's chattel. She had a right to participate in the performance of all religious ceremonies with her husband and the Yajamāna-Patnī was as important as the Yajamāna at the sacrifice. There were very often co wives and one hymn (X 145)

contains a prayer, while using a particular herb, for the discomfiture of co-wives and the securing of the husband's love. The author of this hymn is said to be Sachī, Indra's wife which shows that the evil of cowives, then as now, existed in the families of kings and chieftains. The custom of sati, in our view, existed in the days of Rīgveda as one hymn contains a verse requesting the widow to get down from the funeral pyre of her dead husband (X 18, 8).

The Indo-Aryans were not without superstition equally with modern civilized men. They feared the Rākshasas, also called Yātudhānas; and there are several hymns for protecting sacrifice from them or driving them away (e.g. X 87 and 162 etc.). These were imaginary beings probably, though it may be suggested that they were the worst of the non-Aryans who ate human flesh and were in fact cannibals. Rāvaṇa their king is not mentioned in the Rigveda. Again X. 165 is a prayer to ward off the evil effects of having killed a kapota (wild pigeon). It also mentions that the cry of an owl is ominous.

The Indo-Aryans burnt their dead and there is a hymn to be recited at the burning (X 17). This hymn also suggests that dead bodies were buried sometimes. They worshipped the manes of the dead ancestors, and these manes included the most ancient forefathers even up to Vasishtha (X 15-8). The manes were divided into two classes Barhishadas and Agnishvāttas. They were also invoked as Agnidagdhas and Anagnidagdhas (burnt and

not burnt i.e. probably buried). The Śrāddha was a peculiar rite of all the Aryans throughout the world. The sūkta for recitation at Śrāddha (X 15) uses the word svadhā, svāhā being used when sacrificing.

The disease commonly feared by the Indo-Aryans of the Rigvedic days appears to be consumption. There are two special hymns (X 161 and 163) to drive away this disease from the limbs one by one of the afflicted person; and when the bride and the bridegroom enter their house gods are praised to keep consumption away from them (X 85, 31).

Their religion chiefly consisted of sacrifice in fire with oblations of ghee ordinarily and occasionally of animal sacrifices. The various parts of a sacrifice are mentioned in a hymn to Yajna or sacrifice itself (X 130) where are mentioned Ajya, Paridhi, Brahman and Pratimā. Elsewhere we have 7 Paridhis and 27 Samidhs (sticks) and Barhis. Whether there was idol worship then in vogue cannot be stated. But the Rigvedic Aryans had certain allegorical conceptions about the figures of their gods. Agni thus had two heads with four horns, three feet and seven hands. But it seems probable that stone or wood images of such figures were not fashioned or worshipped along with sacrifice which, with the praise of the deities invoked, was their only religious worship.

NOTE I—MARRIAGE HYMN OF THE RIGVEDA.

The marriage hymn of the Rigveda (x 85) is one of the most imaginative poems in the Rigvedic collection. is a hymn for which no author is assigned. It is put in the tenth or last book and it seems to be a combination by the compiler of Riks which were usually recited at marriage. Its author is thus the compiler himself, the individual Riks being of unnamed authors. It begins with the allegory of the marriage of Surya, daughter of the sun, with Soma or moon (to whom the lustre of the sun is transferred). twin gods Asvins (who also seem to have depended on the sun for lustre) were suitors along with the Moon. the Sun gave Sūryā who desired a husband, to the Moon." This establishes the fact that Vedic Aryan girls were married when they were fit for consummation or, in Rigvedic words, "desired to have a husband". Suitors came to demand and the father gave the daughter to whom he liked. The Vedic marriage ceremony commenced with the bridegroom's coming to the bride's house and ended at his house with taking her hand in presence of Angi who gave blessings and children to the couple. The bride went to her husband's house in a car drawn by bullocks with music, taking with her the dowry consisting of bullocks, horses, etc., given by the father. The whole scene is made the basis of a metaphoric description in which the heavens take part. The bride went into a joint family where she becomes the Samrājni (queen) of the dreaded mother-in-law and of sisters and brothers in law. The consummation of marriage then took place and the act was considered to be a religious act with certain Riks to be recited at the time. Valiant sons were prayed for and Agni was supplicated for giving ten sons tothe couple. We thus see that the Hindu marriage customs of to-day are almost the same as they were five thousands years ago; with this difference viz., that the taking of the bride's hand is not done at the bridegroom's house after the bride is taken there. The Saptapadi which is the most essential ceremony in Hindu marriage to-day and gives it finality must have taken place also as part of the hand-taking, though not specially mentioned in this hymn.

We give below Griffith's translation of the last portion of this highly poetical hymn for the curious reader.

- 42. Be ye not parted, dwell ye here;
 Reach the full time of human life;
 With sons and grandsons sport and play
 Rejoicing in your new abode.
- 43-44. Not evil-eyed, no slayer of the husband,
 Bring weal to cattle, gentle-hearted,
 Loving the gods, delightful, bearing heroes
 Bring blessing to our quadrupeds and bipeds.
- Oh bounteous Indra, make this bride
 Blest in her sons and fortunate.
 Vouchsafe to her ten sons and make
 Her husband the eleventh man.
- Over thy husband's father and thy husband's Mother, bear full sway.
 Over the sisters of thy lord and his Brothers, rule supreme.
 So may the universal gods, so may The waters join our hearts.
 May Mātariśvan, Dhātā and Tvashtri Bind us close together.

NOTE II—THE DĀŚARĀJNA FIGHT.

The 'Dāsarājna' fight or fight with ten kings, as it is called in the Rigveda itself, is described in the Vasishtha

Mandala in three suktas viz., VII 18,, VII 19 and VII 33. It would be interesting to give in detail what these hymns say. VII 18 is in praise of Indra and states how Indra enabled king Sudasa Paijavana, to overcome his enemies in this fight though hard pressed by them. It is highly poetical but rather difficult to understand even with the help of Sāyana's commentary. There are certain details, however, which indubitably appear and we give them from each verse understandable. "For Sudasa, Indra made the difficult waters (of Parushni) shallow and easily passable" (v. 5 first half). "Turvasa desired to sacrifice and give wealth in alms; he as also the strong Matsyas. The Bhrigus and Druhyus helped them. But Indra between them saved his friend (Sudasa)" (v. 6). "The Pakhtas, the Bhalanas, the Alīnas, the Visanins and Sivas* made noise but he (Indra) exhilarated (with Soma offered) brought back the cows of the Arya (Sudāsa) to the Tritsus and fought with (or killed in fight) their men" (v.7). "The evil-intentioned senseless (enemy) trying to divert the strong Parushni river, dugher bank; but Kavi son of Chayamana felled down by the greatness (of Sudasa) lay like the sacrificed animal" (v. 8). Indra made up the breach and Parushni flowed as before and

* The first half of this verse was difficult for Sayana to crack with its five words Pakhtas, Bhalānas, Alinas, Vishānins and Sivas and he rendered them as cooks (in sacrifice), the speakers of Bhalā (well), the men not grown in Tapas, men with horns to scrach their skin, and the benefactors (by sacrifice) cried loudly (praised Indra), But this is clearly untenable. Pakhta is a word, as pointed out by Sir R. Grierson, still surviving in Pakhtu, a frontier dialect. Vishānins appear to be another non-Aryan tribe like some Red Indian tribes who tied horns to their heads. In our view, this half verse contains the names of the non-Aryan five tribes (like the five nations of America) who assisted the Druhyus and other Aryan kings.

the horse (of Sudasa) went to the desired place. Indra for Sudāsa killed (subdued - Sayana) the bragging enemies (v. 9.) "King Sudāsa, in his desire for fame, killed twentyone men of the two Vikarnas (first half of v. 11), while Indra drowned old Śruta Kavasha after Druhvu". "Those who praised him got friendship" (v. 12). Indra at once broke all their strong places and seven towns. He divided the wealth of the son of Anu among the Tritsus. We shall conquer the bragging Puru in battle. (v. 13). Sixty-six thousand and sixty-six Anus and Druhyus desirous of cows slept (on the battle-field); all these are Indra's valourous deeds (v. 14). Indra gave much wealth to Sudasa (v. 15, 17). Oh Indra! kill Bheda (enemy of Sudāsa) with thy vajra (v. 18), Indra who killed Bheda in that fight was propitiated by the Yamuna and the Tritsus and the peoples, Ajas, Sigrus and Yaksus, made him presents of horses' heads (v. 19). Parāsara, Satayātu and Vasishtha do not forget to praise thee and thus enjoy good days (v. 21). Sudāsa son of Pijavana and grandson of Devavāta* gave two hundred cows and two cars with wives to me who will go to the sacrificial fire (v. 22). Four horses given by Paijavana with gold (trappings) draw me (in a car). Sudāsa whose fame fills the two worlds as giver of wealth has distributed wealth among the leading people. Oh men, please and follow king Sudasa like his father Divodasa and may the power of the Paijavana be indestructible and unimpaired (v. 25)

The above hymn shows how Sudāsa, son of Pijavana also called Divodāsa, fought on the Parushni against five aboriginal peoples and Anu, Druhyu, Pūru, Matsya and Turvasa and by the aid of Indra praised by Vasishtha

^{*} This shows that the Hindu practice of mentioning the father and grandfather to particularise a man is as old as the Rigweds.

gained the battle. He conquered as far as the Yamunā, the people on whose bank submitted to him.

R. VII 19 is another important hymn. Though it does not directly mention the famous fight, it mentions Sudasa and other kings with their fights with Vritras. addressed to Indra by Vasishtha or his descendants. "Oh Indra! you protected Kutsa and for this son of Arjuna you killed the Dasa Sushna and Kuyava (v. 2) You protected Sudasa who had sacrificed to you, with all your powers of protection; you also protected Trasadasyu, son of Purukutsa and Puru in his Vritrahatyas or fights with the aborigines (v. 3). Oh Indra of green horses! you killed many Vritras for god's sacrifice. You with your good weapon laid low, for Dabhīta, the Dasyus Chumuri and Dhuni (v. 4), You destroyed 99 towns and killed Namuchi (v. 5). You gave abounding wealth to do a praiseworthy thing for Atithigva (Sudāsa or his father Divodāsa-Sāyana), killed Yādva and Turvaśa (v. 8). Oh Indra! by this praise be propitious to men in their fight with Vritras (Dasas) and protect them (v. 10).

R.VII 33 is the next important hymn as it mentions the Dāsarājna fight by that name. It is addressed to the Vasishthas generally, by some of their descendants. It opens with "O Vasishthas of white complexion and with tufts of hair kept on the right side of the head" &c. (v.1) This shows that the Vasishthas were, like the modern Kashmirians, of white complexion and had a peculiar way of keeping the hair on the head. "With these Vasishthas, he (Pāsadyumna) crossed the Indus with ease and with them he killed Bheda easily." (This probably shows that with these Vasishthas, the Aryans came from beyond the Indus. The four priestly families which first came thus were, as stated in the Mahābhārata verse quoted before, Bhṛigus, Āngirasas, Kāsyapas and Vasisthas). "And

Oh Vasishthas! by your hymn (prayer) Indra verily protected Sudāsa in the Dāśarājna fight with ease" (v. 3). "In the Dāśarājna fight they (Tristus) were surrounded and being thirsty prayed for water; and Indra heard the prayer of Vasishtha and made the world broad for the Tritsus (v. 5). The Bharatas driving their cows were shorn like sticks and were few. But Vasishtha was their purchita (Tritsus is another name for Bharatas) and the people of the Tritsus prospered "(v. 6). Sāvana seems to be wrong in interpreting Pura &c., as Purohita. We take it to mean, Vasishtha went in front or took the lead and hence in the fight the people of the Tritsus became victorious. Hereafter the hymn relates the birth of Vasishtha from Mitra and Varuna who, while sacrificing, on seeing Urvasi, emitted semen which was kept in a jar from which came out Agastya and subsequently Vasishtha. It is strange to find that this absurd story of the birth of Vasishtha (related in the Puranas also) is as old as this Rigvedic hymn.

A fourth hymn of Vasishthas gives the clearest proof of this fight. R VII 83 states "Ten leagued together kings not sacrificing* could not fight with Sudāsa, Oh Indra and Varuṇa! His sacrifices pleased the gods with oblations" (v. 7). Oh Indra and Varuṇa! you gave strength to Sudāsa when he was surrounded in the Dāśarājna (fight) where the white-complexioned and hair-tufted Tritsus (Vasishtha's pupils – Sāyana) propitiated you with their prayers and oblations" (v. 8). VII 53 contains a stray reference to

*This might suggest that the ten kings were non-Aryans. But as VII 18 distinctly mentions Anus and Druhyus as slain and Matsyas and others, we have to admit that some of the ten kings were Aryans. Probably these did not sacrifice at the time of the fight, while Vasishtha sacrificed to Indra when Sudasa was fighting.

Sudāsa in verse 3. These hymns from the Vasishtha Mandala show that the Vasishthas are full of the memory of this battle wherein the Bharatas or Tritsus, Vasistha's clan-men, with their king Sudāsa obtained a decisive victory on the Parushṇi (Ravi) by the help of the prayers of Vasishthas (the priests of Bharatas). Sudāsa and Pijavana or Divodāsa are solar race kings even in the Purāṇic genealogies, while their opponents Anu, Druhyu, Pūru, Matsya and Turvasa are lunar race people. Yadus and Turvasas had attacked Divodāsa himself but they were killed by Indra.

Several attempts have been made to fix the approximate date of this Panipat of Vedic times. A researcher of Poona thinks that the fight took place in the sixth millenium B. C. as it may be believed that Manu was saved from the Deluge. an event of about 7009 B. C. and that Sudasa was a contemporary of Chitraratha, Manu's descendant in the 19th genera-He also thinks that the Vedic Sudasa and his father Divodasa were foreigners, not being mentioned in Puranic genealogies. These views are, we think, not correct. Purana genealogies, especially in their earlier portions, are unreliable, as will be shown when we come to the Puranas. A Sudāsa appears in the Purāna genealogies in the solar line; but he is not the Rigvedic king as he is not a son of Divodasa. He is most probably one of his ancestors, how far removed can not now be stated. He is, however, not a foreigner, but an Indo-Arvan king, as Vasishtha is his purchita; and his date may be taken to be about 5000 B. C. as he is referred to in some of the oldest hymns of the Rigveda.

IX SĀMAVEDA.

The second Veda viz., the Samaveda, is a natural outcome or accompaniment of the Rigveda. Singing is natural to man when praying and some of the Rigvedic verses must have been set to singing, even before the Rigveda was compiled. Then again, the Soma juice was an exhilarating drink and when it was offered to the Vedic gods, especially to Indra, the god of war, the Vedic Aryans would naturally fall to singing the praises of Soma and Indra. The Sāmaveda, therefore, was a natural and even a necessary accompaniment of the Rigveda, as the book of Psalms is of the Bible. At the Vedic sacrifices there was a special singing priest called Udgatri; for every priest could not be a singer, singing requiring god-gifted voice and man-attained excellence. The Hotri priest recited the Rigvedic verses, the Udgātri sang the Psalms and the Adhvaryu uttered the sacrificial formulæ and threw the oblations into the fire. The singer priests, therefore, must have already put together the Saman verses they had to sing and settled the method of singing them also. Thus must have arisen the Dasatis of the Samaveda like the family books of the Rigveda, before the Samaveda, along with the Rigveda and the Yajurveda, was finally put together by Veda-Vyāsa alias Krishņa Dvaipāyana.

The Indo-Aryans were, during the Rigvedic period, as we have seen already, well advanced in

civilization. They had probably, though not certainly, found out the seven musical notes and also the different arrangements of these which could be made in singing. "Several references in the Rigveda show that even in that early age, the Indians were acquainted with different kinds of music. There were three main types of percussion, wind and stringed instruments viz. Dundubhi, Venu and Vīnā. A Rishi states that the sound of the flute is heard in the abode of Yama where the blessed dwell" (Macd. p. 169). "That vocal music had already gone beyond the primitive stage may be concluded from the method of chanting the Samaveda, which was probably very ancient, as the Soma ritual goes back to the Indo-Iranian age " "Singing is often mentioned in the Rigveda". (Ditto p. 170) We may add that the Sāman verses are more than once mentioned in the Rigvedic hymns themselves, as distinguished from Riks and the skill of Vasishthas in singing loudly the Sakvari-metred samans is also noted in the Vasishtha Mandala (VII 33, 4 quoted already). In the marriage hymn (R.X 85) it is stated that the two bullocks of the bridal car of Süryā were prompted by Riks and Samans. It cannot, therefore, be doubted that Samans or good verses were differentiated even in the early part of the Rigvedic period. The chants of the Samavedin, Burnell holds, 'may go back as far as the hymns of the Rigveda; songs are everywhere among the earliest literary productions and Samans are in fact mentioned in the Rigveda.'

The Charanavyūha says that the Sāmaveda had 1,000 branches or Sākhās. The word 'one thousand', here used, may be taken to mean many or innumerable. Indeed we can conceive that the Saman verses were really sung in innumerable ways. But. only seven Sakhas are named by the Charanavyuha and two of them alone viz. the Ranayaniya and the Kauthuma survive. A real singer of the Samaveda. is now not available and we cannot tell how the Vedic Aryans sang the Saman verses. In the printed books the seven notes, Shadja and others, are mentioned; but one of these is taken as the note of singing the whole sūkta. The Uttarārchika sūktas give different notes for singing different triads. It is impossible to say how the Vedic Arvans originally sang the Samans; indeed whether they knew all the seven notes,* as Sama-singing has changed from time to time. A noted Brahmin singer of Gwalior used to sing Saman verses in all the seven notes. and in different arrangements of them called Ragas; but this can never be conceived as the original method of the Vedic Aryans of chanting the Saman verses. The word 'Om' is the peculiar property of the Samaveda, as the humming of this word must have assisted the singer in steadying his voice as he began singing a Saman. The word 'Om' eventually became denotative of the Highest Deity and its importance is detailed in the well-known Chhandogya Upanishad of

^{*}We have not yet come across the names of notes in the Sanhitas, whether Krushta, Prathama &c. or Shadja, Rishabha &c.

the Sāmaveda. That word, with Harih added before it, has now been fixed upon as the word which ought to be pronounced when beginning any Vedic recitation.

In the Bhagavadgītā, Śrīkrishna identifies himself with Samaveda from among the Vedas. This may be explained in three ways. Singing prayers leads to the highest mental elevation. Then again, Śrīkrishna was very probably a follower of the Samaveda as in the Chhandogya Upanishad it is said that Ghora Angirasa taught a particular Vedanta doctrine to Krishna, son of Devaki. Thirdly, Srikrishna himself was a great singer as the Harivansa relates that he invented the Chhālikya gāna or singing in concert and the Yadavas sang it. In the Brahmanas themselves, this highest place of the Samaveda is already attained, as will be seen later on. The Samaveda has, therefore, an importance of its own; but to the Vedic student it has not much importance as most of its verses are taken from the Rigveda.

The two Sākhās extant of the Sāmaveda are the Rāṇāyanīya and the Kauthuma. The adherents of the Rāṇāyanīya sect are chiefly found in Mahārāshtra and those of Kauthuma are found in Gujarat. The recensions of the two, it is surmised, differ but little. We have before us the Rāṇāyanīya text and not the Kauthuma one. This text contains 1549 verses. It is divided into two books. The first book called the Pūrvārchika (the earlier collection of Riks or verses) consists of 6 prapāthakas or lessons, each prapāthaka having ten Dasatis or decades,

each of ten verses. The last prapathaka contains, however, 14 decades and these are not exactly decades, as they contain sometimes less and sometimes more than ten verses. The sixth prapathaka really contains 154 verses and the preceding five 500, making the total of the first book thus 654. The second book called the Uttararchika (later collection* of Riks or verses) has a different arrangement. There are no decades in the nine prapathakas contained therein and the prapathakas are divided, the first five into two halves and the last four into three halves. Each half lesson contains up to 23 stanzas. But these stanzas usually contain more than two ordinary verses of the same metre.

The Dasatis (decades) of the first book or the prapāthakārdhas (half lessons) of the second book cannot strictly be called sūktas or hymns, as they are not the compositions of one Rishi. The Rishis of their verses are many. They are of course mostly identical with the Rishis of the Rigveda as the Riks or verses in the Sāmaveda are all taken from the Rigveda with the exception of seventy-five. There is an Anukramanī of the Rishis and Devatās of the Kauthuma text, composed by the Naigeya School. We have prepared a list of Rishis and Devatās as printed in the Rāṇāyanīya text and we find a few Rishis only who are not included in the Rigveda Rishi list. As the Dasatīs or prapāṭhakārdhas contain verses com-

Caland believes the Uttarārchika to be really the earlier one (Datta). So does Burnelle

posed by different Rishis, the question arises on what principle these Riks of different Rishis are put together. It is a question difficult to answer. One thing is apparent viz. that the verses in each decade refer to the same Vedic deity. These deities in the first book are chiefly Agni, Indra and Pavamāna Soma. Thus the first Prapāṭhaka contains Daśatis the verses of which are mostly addressed to Agni. It is only rarely that other deities come in, as will appear from the list of deities and verses appended hereto. This observation does not apply to the second book.

The first book with its present division is referred to in the Satapatha (2nd Brāhmana) as pointed out by Dr. Macdonell. We are, therefore, justified in concluding that this book was compiled by Veda Vyāsa as the tradition is, Satapatha being posterior to Vyāsa. The second book too may be taken to have been also compiled by him. The Dasatis of the first book. like the family books of the Rigveda, were probably older even than Vyāsa and he had merely to collect them together. The prapathakardhas of the second book may be said to have been put together later than Vyāsa, as it is distinctly called Uttarārchika or later collection. But even this might have been put together by Vyasa himself from the sacrificial practice of his time, giving selections of Riks made for Udgātris for singing at different stages of the sacrifice and in praise of different deities, since these ardhas (halves) are usually in praise of more than one deity. There is thus no obvious objection to accept the tradition

of the Mahābhārata that Veda-Vyāsa compiled all the three Vedas; and accepting this tradition the date which we can assign to the compilation of the Sāmaveda is the same as that of the compilation of the Rigveda viz., about 3100 B. C. The compilation of the Sāmaveda certainly preceded the Śatapatha which in one place states that there is no sacrifice without Sāman (नासाम यज्ञा भवति) and no Sāma-singing without Hinkāra (नवाहिंक्ट्य साम गीयते Ś I 3, 1).

There is a Padapātha for this Veda, both Pūrvārchika and Uttarārchika. This text is, Burnell states, attributed to a Gārgya (Introd. to Ārsheya Brā. p. 8. The authority given in a footnote is one Durga on Nirukta IV, 4).

A few remarks of Burnell in his introduction to Arsheya Brāhamṇa on Sāma-singing may be given here. The Sāma chants resemble in some respects the Gregorian or Plain Chant. The Sāman, however, being the older and less cultivated, one occasionally meets with passages which are forbidden by the rules of the Plain Chant. The principle of the modern notation of sāmans in the south is more simple than the earlier one of putting in hundreds of letters. The seven notes are marked by the numerals 1, 2, 3, 4, 5, 6, and the last (almost never used) by 7 or $^{\circ}$. Of these the first is equal to F and the rest to E, D, C, B A, G.' (p. XI.).

Note I-SĀMA-SINGING.

At the present day, very few Vaidika Sāma-singers are found. One does come across, now and then, a Sāman reciter, belonging to the Rāṇāyanīya school, but one is not satisfied on hearing him, that his singing is really the old Sāman chanting of the Vedic Rishis. Mr. N. K. Patwardhan, a pleader of Poona has studied Sāma-singing from the Sūtras on Sāmagāna and is trying to settle the ancient mode of Sāma-chanting. A few of the points which he has settled may be noted here for the information of the curious reader.

From the Chhāndogya Upanishad, we learn that Sāmasinging consists of five parts viz., 1. Hinkāra, 2. Prastāva, 3. Udgītha, 4. Pratihāra and 5. Nidhana. These, at least three of them, remind us of the Astai, Antarā and Ābhoga of modern Indian singing. The ending Nidhana (coda of European music) usually consists of one vocal sound lengthened through three or four notes and may be compared to the ending supplementary Tāna of Indian modern singing. The modern Rāgas or arrangements of different notes may be equated to the different Sāmans named after a typical song (chāla of Indian music); these names are innumerable such as Vāruṇa, Śaubhara, Brāhma, (we find Brāhma Achhāvāka mentioned in Black Yajurveda Sānhitā) and Rathantara, Vinardi, Yajnāyajnīya, Yodhājaya and so on.

The numbers 1, 2, 3 given above letters in most printed books of Sāmaveda are indicative of Udātta, Svarita and Anudātta; but the numbers given in Sāma-Gāna books indicate notes. These notes are usually 1, 2, 3 and 4 and we even have 5, 6 and 7 and they indicate according to Nāradīya sīkshā, Madhyama 1, Gāndhāra 2 and so on in the descending order. Then again the vowels in the original Rik, according to the Pushpasūtra have, in singing, to be elongated or

shortened or changed (e. g. e into ai). This is what is seen in singing in every language. To an Indian, even knowing English, a verse sung in English becomes almost unintelligible by the various changes in pronunciation. Lastly, some unmeaning sounds or words have to be inserted here and there such as, "Au, hau, vā nā, shom" (called stobhas) to be sung in more than one note like modern Tāna; and some parts of the verse or even of words have to be repeated, apparently unnecessarily.

The Uttarārchika has stanzas usually consisting of three or more Riks, the first of which is always taken from the Pūrvārchika. The two or more following Riks are not tacked on to it so much for continuity of meaning as for sameness of mode of singing. The first verse gives, in effect, the sample mode, they being also of the same metre.

The supplementary Mahānāmnī Archika (विदा मघवन् विदा &c.) given in the middle of the Sāma-Sanhitā is called Aindra-puchchha or the tail of the Sāman of Indra. It is chiefly in Śakvarī metre, some portions being added as Upasarga (see the foot-notes in printed texts). There are thus three Śakvarī stanzas and these are to be sung in a loud voice.

NOTE 2-STRANGWAY'S 'MUSIC OF HINDUSTAN' ON THE MODE OF RECITING THE VEDAS.

Mr. Strangway says (p. 246) that the Rigveda was recited originally in three musical notes which have become stress notes, since the beginning of our era, viz. Udātta (raised), Anudātta (not raised) and Svarita (falling accent). No authority is quoted for this statement: so far as we have enquired, Rigveda is never sung in different notes, though printed editions give different notes Rishabha, Gāndhāra &c. for different verses in the sūktas.

He thinks that the Yajurveda is recited on the notes D

E and F i. e. Rishabha, Gāndhāra and Madhyama. There are different notes assigned for different verses in the White Yajurveda also. As actually recited at present, Yajurveda, Black or White, is recited in one note, though the pitch may be sometimes Tāra.

Mr. Strangway gives valuable information about the Sāmaveda. "There are no melodic figures (modern Rāgas) in Sāma-chanting. Sāma is chanted at the pressing of Soma or the moon-plant and at the worship of ancestors who reside in the moon." This connection of Sāma-chanting with funeral rites is mentioned even in the Mahābhārata where the burning of Bhishma's dead body is described (Śāntip. XVI). "Soma sacrifice involved months in preparation and days in performance." "Other creeds have swept over India and buried the Vedic creed except in the south where even, true Sāma-singers are few and impostors many.

'The Stobhas are Jubilations and are borrowed from the Rigveda and the places wherefrom the quotations are taken are called yonis. The gaṇas give directions for singing. The scale of Nāradīya-Sikshā in modern notation is F. G. and not G. A. Sāma-singing circles round one note F or E.

The Sāma-song is divided into five parts as follows;

(1) Prastāva or introductory ascription of praise preceded by the syllable Hum (\$\overline{q}\$\text{q}\$) sung by Prastotri; (2) Udgītha sung by Udgātri, chief Sāma-priest, preceded by the sound Om. (\$\overline{q}\$); and (3) Pratihāra or joining in, preceded by hum (\$\overline{q}\$) sung by Pratihartri who joins in the last syllable,-sometimes divided into two parts viz: (4) Upadrava or recession consisting of the last two syllables of the Pratihāra, sung by Udgātri and (5) Nidhana or Coda, consisting of two syllables or Om (\$\overline{q}\$\overline{q}\$) sung by all the three priests. For example the first verse of the Sāmaveda taken from R. VI, 16, 10 is divided as follows:-\overline{q}} \overline{q} \overline{

आयाहि बीतथे गृणानो हव्यदातये (उद्गीथ); नि होता सित्स बर्हिंगि ओम् (प्रतिहार) - to be divided into निहोता सित्स ब-(उपद्रव) हिंगि ओम् (निधन).

This is sung three times over to form a stoma (group). The next eight verses of Sāmaveda are also from the Rigveda. The last belongs, however, to Sāmaveda exclusively and forms the Doxology. The first, the fourth and the fifth are stomas; 6, 7, 8 sung thrice and the other four only once, form in all 19 and are called Bhaktis which are usually 15.

The Gāṇas give directions for prolongations and modifications of vowels as also for the insertion of vowel syllables. These insertions or stobhas are the exact counterparts of sybilex. The rythm of the chant ignores the poetical metre. The names of Sāma-notes are Krushta, Prathama, Dvitīya, Tritīya Chaturtha, Mandra and Atisvārya. The authorities on the subject are 1. Rik Prātisākhya, 2. Brihad devatā, 3 Taittirīya Brāhmaṇa, 4. Sāma-Vidhāna Brāhmaṇa, 5. Pushpasūtra, 6. Sāmatantra and 7. Nāradasikshā which is quite modern. The Pushpasūtra says that the Kauthumas sing in five notes, some in six and fewer still in seven.

The name Gāndhāra is taken from the country, but Rishabha, Dhaivata and Nishāda are inexplicable. Shadja is born of six or father of six. Numerals are placed above the syllables of the texts to indicate substantive notes (宋香市). Between them are grace-notes (宋香市). The melodic figures are to be sung after patterns handed down from mouth to mouth and their names are many.

X BLACK YAJURVEDA.

The next Veda is the Yajurveda of which there are two forms, the Krishna or Black and the Sukla or White. The terms black and white do not, in our view, involve any disparagement of the former. though this is sometimes urged. They merely mean, we think, the old and the new, a new party among Hindus being usually termed Sukla even now. Sukla may also perhaps mean reformed. That the black Yajurveda is the older form is admitted in the very legend which explains how the White form arose, a legend which we will detail presently. Yajurveda relates principally to sacrifices and gives the various mantras used in them as also prose formulae relating to the method of their performance. The word Yajuh occurring in the Purusha-sūkta probably means, as stated already, the sacrificial prose formula. These formulæ must have been settled in old times though they may have gradually changed according to the change in language as also in ritual. These formulæ, as preserved in the Black Yajurveda finally compiled by Vyāsa, have accents and hence they unquestionably belong to the Mantra period. The rules of accentuation for the two Vedas are nearly the same, as they are chiefly given by Pānini and the Prātiśākhyas. The method of pronouncing the accents in this Veda differs, however, from the older method of the Rigveda, being more musical and less rough. Hence the recitation of the

Black Yajurveda is more pleasing than that of the Rigveda. Even this accentuation disappeared, as we have seen, in the days of the Brāhmaṇas.

The Black Yajurveda thus consists of accentuated prose interpersed with mantras in verse here and there which are directed to the praise of sacrifice, to the manner of its performance and often to the glorification of the gods to whom the sacrifice is offered. The text of the Black Yajurveda may be taken to have been settled by Veda-Vyāsa at the same time that he settled the text of the Rigveda and the Sāmaveda. This text has been preserved to us in more than one recension, the Katha, the Kapishthala, the Kālāpa or Maitrāyanīya, the Taittirīya and others. But like the Śākala Śākhā of the Rigveda, the Taittirīya recension is the most widely known at present. The Maitrayaniya text which has been published by Schroeder, consists of four books (Kāndas) and fifty-four lessons or Prapathakas, and differs to a considerable extent from the Kāthaka text which has also been published by the The Taittirīya text has same scholar. published in many places and at several times. From the copy before us, we find that it consists of seven books and forty-four lessons, each lesson being further subdivided into Anuvākas. This recension might be later than the Maitrayaniya one as the number of Kandas is greater though that of the Prapathakas is less. The real difference in extent between the Maitrayaniya and the Taittiriya texts

cannot be estimated; especially because there is no index book for this Veda like the Sarvanukramani of Kātyāyana for the Rigveda which gives its contents in detail. Such Anukramanīs were probably not composed for the Black Yajurveda Sanhitā, because it consists of prose gathas principally, which cannot be counted and for which no Rishi or Devata can be assigned. Even now the Black Yajurveda followers do not give the Rishi or Devata of any mantra they recite, as the followers of the Rigveda do. The Taittīrīya Sanhitā mantras need not, therefore, have any Anukramanis. The several Anuvākas, however always end with a mention of the number of padas or words in the Anuvākas. This is peculiar to this Veda alone. For example, it is mentioned at the end of Anuvaka I Prapathaka I Kanda I that the words beginning with Isha are forty-three (इषेति त्रिचत्वारिंशत्). If these be added for the whole Sanhita, the number of Padas or words comes to precisely 110, 296. The mantras or sentences are not numbered one, two and so on, and have not been counted, though the number of Anuvākas has been and comes up to 651 (see note).

Dr. Macdonell observes that the Yajurveda introduces us not only to a geographical area different from that of the Rigveda, but also to a new epoch of religious and social life in India (p. 174). This is true to some extent only; for we must remember that. even in the Rigvedic age, the Indo-Arvans had advanced in the settlement of the country as far as the Sarayu in Oudh and the lower valley of the Jumna.

The Matsyas and the Chedis are clearly mentioned in the Rigveda. The Rigveda, however, covers the whole period from the entry of the Indo-Aryans intothe Indus valley down to their settlement in the lower portion of the valley of the Jumna. Then again, the Chandravansi Aryans had settled even in the days of the Rigvedic hymns in the region of the Sarasvatī under Püru and had advanced south-eastward into the Chedi and Matsya countries. The centre of the Aryan civilization towards the latter part of the Rigvedic period was already in this Sarasvatī region or Kurukshetra and Sarasvatī is already a sacred river in the Rigveda, several hymns in praise being addressed to her. It may safely be held, therefore, that the compilation of all the three Vedas, viz. the Rigveda, the Samaveda and the Black Yajurveda took place in this region under Vyāsa about 3100 B. C. a little before the great fight between the Kurus and the Panchalas.

It may here be objected that the language of the Yajurveda strikes us as somewhat modern. But that there is not much difference between the language of the later portions of the Rigveda and that of the Yajurveda is admitted by all. Secondly, the language of poetry is always more archaic than the language of prose and the Rigveda consists entirely of poems. Moreover the prose in the Yajurveda is simple and must have constantly changed and adapted itself to the changing language and hence there are not many archaic forms or archaic words in the Black Yajurveda. Lastly, even as it is, this language is not

that of modern Sanskrit and is distinctly old, as old as the language of the Purusha-sūkta and other later hymns of the Rigveda and has still accents as already stated.

With regard to the nature of the civilization and social condition of the Indo-Aryans as reflected in the Black Yajurveda, it may be stated that it does not much differ from that disclosed in the Rigveda. Caste had already developed upto the four chief castes in Rigvedic times. The Vedic gods appear to be nearly the same, though Ushas, the old Arctic home deity, is nearly obsolete, while Rudra has advanced in public favour. There is a special Rudrādhyāya in the Black Yajurveda which is essentially pantheistic in view. Sacrifice, of course, is the chief object of the Yajurveda and therefore still supreme. The various forms of daily, monthly and yearly sacrifices are detailed in this Veda naturally enough. But there is no mention. so far as we see, of human sacrifice which probably came into prominence hereafter (as we shall show when speaking of the White Yajurveda) when the Aryan kingdoms in India developed in extent and power and the Indo-Aryans, from being a newly conquering people, became the settled inhabitants of the land. There is, however, at the end of this Veda the well-known symbolization of the Asvamedha,* the phenomenon of sunrise being looked upon as a horse

This favourite sacrifice of the Indo-Aryans is described in detail together with the strange practice of the queen of the sacrificing king being made to lie with the dead horse. Obscene rites obtained, we know, among Western Aryans also.

sacrifice, the early Ushas being the head of the horse sacrificed, the sun its eye and so on.

The Black Yajurveda has its pada text which must have been formulated like the Rigveda-pada-pāṭha when the Vedic language became generally ununderstandable. This pāṭha must have, therefore, arisen about the same time as the Rigveda pada-pāṭha and must have given rise soon to the Krama-pāṭha also. Who the authors of these pāṭhas were, can not be ascertained with certainty; but it may be surmised that Sākalya and Gālava were also the authors of the Black Yajurveda Pada and Krama texts as in their days the division of Brahmins into Rigvedins, Yajurvedins &c. had probably not yet arisen. The Hiraṇyakeśi Sūtra mentions Ātreya as the author of the Pada text.

The contents of this Sanhitā are interesting and deserve careful study. There are stray references to historical facts and kings here and there. There is thus an interesting reference to Vasishtha and Sudāsa in the seventh Kāṇḍa (4, 7) wherein Vasishtha whose sons were killed is mentioned as performing a particular sacrifice to obtain sons as also to secure the friendship of Sudāsa. Vasishtha's patron Sudāsa was perfectly remembered in the days of the Black Sanhitā.

NOTE:—FURTHER PARTICULARS ABOUT THE BLACK YAJURVEDA SANHITA.

The Black Yajurveda, following the popular division of the Rigveda, divides itself into Ashtakas and Adhvavas. But an Ashtaka does not always contain eight Adhyayas. and the Kanda itself is called an Ashtaka whether it contains eight or less Adhyayas, the number of Adhyayas in the seven Kāndas being 44 (8,6,5,7,7,6 and 5). The Adhyāva is. however, divided into Anuvakas and not into Vargas as in the Rigveda. There are further no Riks or Mantras as such but particular sentences or words are quoted as mantras in the Brahmanas. The number of such mantras has not been counted but every set of 50 padas is differently numbered as one, two and so on. Numbers less than 50 are further given in words and these sentences are learnt by heart by those who learn the Sanhitā. The details of the contents of this Sanhitā by Anuvakas and padas is as shown in the following table, Prapathaka being the same as Adhvava.

No. of Anuvakas

Anuvākas in Kaņļa or Ashtaka							
No. of Adhy.	I	II	III	IV	v	VI	VII
1	14	11	11	11	11	111	20
1 2 3	14	12	11	11	12	11	20
	14	14	11	13	12	11	20
4	46	14	11	12	12	11	22
4 5 6 7 8	11	12	11	11	24	11	25
6	12	12	•••	9	23	11	
7	13	•••		65	26		
8	22			••		•••	
Total	146	75	55	82	120	66	107

Grand Total of Anuvakas 651
Padas 19165; 16583; 10622; 14105; 19406; 16902; 13325
Grand Total of Padas 110296.

The Yajurveda mantras have no Rishis; but certain Kandarshis are worshipped. These are variously given as nine, six, five or four and their names are all, those of gods who are supposed to have seen them. For this the seven Kandas of the Sanhitā and the three of the Brāhmana are re-distributed into nine or six &c. These new Kandas called 1 Prājāpatya 2 Saumya 3 Agneya 4 Vaisvadeva 5 Svayambhuva and 6 Aruna; of the remaining three the names are 7 Sānhitī Devatā 8 Varunī Devatā and 9 Yājnikī Devatā. The Prājāpatya Kānda consists of some mantras from Kanda I with some from Kanda II, and so on. The details are given in the Satyāshādha-Sūtra-Bhāshya-Tīkā by Gopināthabhatta (p. 339 Ānadāśrama Edn.) This seems to have been taken up by the followers of the White Yajurveda also, as the first sukta in it इवत्वाजीत्वा, the same as in the Black Sanhitā, has Prajāpati assigned to it as its Rishi. This practice of assigning gods as Rishis where none are known is borrowed from the Rigveda practice wherein hymns like the Purushasūkta &c. are attribtued to Nārāyana &c.

The prayer at the end of the Asvamedha ritual with which-however, it is usual to finish every sacrificial rite, small or great, is worth quoting. It breathes a high national spirit and contains also a correct appreciation of the essentials of national prosperity in Indian kingdoms. This mantra is also taken in the Vājasaneyi Sanhitā (XXVI 22)

"May in the Brāhmin community be born Brāhmins possessed of the lustre of sacred knowledge and may in this state be born Kshatriyas proficient in archery, brave and great chariot-warriors. May cows be milk-giving, oxen able to draw, horses swift, women with graceful persons and young men fond of riding chariots, desirous of winning and fit for appearing in assemblies. May this sacrificer obtain a hero son. May rain come at each time we wish for

it, may plants give us good crops and may there be subsistence and welfare for all of us."

(आब्रह्मन्ब्राह्मणो ब्रह्मवर्चेसी जायतामाऽस्मिन्राष्ट्रे राजन्य इषव्यः ग्रूरो महारथो जायनां बोग्धी धेनुर्वोद्धानहवानाञ्चः सप्तिः पुरिध्न्यर्थेषा जिष्ण्य रथेष्ठाः सभेयो यवास्य यजमानस्य वीरो जायतां निकामे निकामे नः पर्जन्यो वर्षत् फलिन्यो न ओषधयः पच्यन्ताम् योगक्षेमो नः कल्पताम्. The word Brahman is differently interpreted by Sayana in his Taittiriya Bhashya and Uvata and Mahidhara in their Vajasaneyi Sanhita Bhāshyas. Sāyana takes it to be in the locative case and mean 'in the Brahmin community," probably in opposition to Rastre Rajanyah which follows and which cannot, therefore, be taken back. The latter take it to be in the vocative; but they do not give its meaning. We prefer Sāyana's rendering as the Taittirīya Brāhmana begins with the words Brahma and Kshatra with the same meaning. Vaisvas are suggested by Dhenu and Anadvan mentioned in the next sentence. This mantra is commented on in the Taittiriya Brahmana also in III 8, 13 and the above rendering is olso supported by the running comment there.).

This prayer is fit for being used as a national prayer in any country, specially in any of the Indian states, even at the present day.

WHITE YAJURVEDA.

The Sukla or White Yajurveda, as stated before, is, by the very legend of its origin, a later form of the Yajurveda. The legend as given in the Mahabharata (Śānti Parva, Chap. 360) shortly runs thus:-"Vaisampayana, the teacher of Yajnavalkya once got angry with him for disparaging his co-students and asked him to leave his school, after returning the Veda taught to him. Yājnavalkya immediately vomitted the Veda the mantras of which burned like hot embers. The other pupils of Vaisampayana, assuming the form of the Tittiri bird (which is supposed to be able to eat live coals), ate up the Veda which thenceforth became known as the Taittiriya recension. Yājnavalkya being now without any Veda propitiated the Sun who gave him fifteen new Yajush mantras. He then started a new school of his own, formulating the White Yajurveda Sanhitâ and composing a separate Brāhmana called Satapatha Brāhmana. The new Sanhitā is called the Vājasaneyi recension because Yājnavalkya learnt the new mantras from the Sun, riding the horses of his chariot." This legend is on the face of it imaginary, being a name legend as Dr. Bühler aptly called such legends. It is clearly based on the names Taittiriya and Vājasaneyi. We may, however, believe that Yajnyavalkya, being dissatisfied with the Yajurveda as taught to him by Vaisampāyana, founded a new school of his own,

reforming the Black Yajurveda Sanhitā by separating the prose Brāhmana portion of it and composing a few new mantras of his own, so that his Sanhita. might fitly be called a new one. The new Sanhita is based on the Rigveda model, however, consisting as it does of verses only. It begins with the verse 'Ishe tvorjetva' the beginning verse of the old Yajurveda; but even in this verse Yajnavalkya has made certain alterations. He composed a separate Brāhmana for his new Veda viz. the Satapatha, explanatory of the mantras in his Sanhitā and thus set the way to the followers of the other Vedas for composing explanatory Brāhmanas for their Vedas. The White Yajurveda Sanhitā is thus the compilation. not of Vyāsa, but of his pupil's pupil and is of the same date as its Satapatha Brāhmana i.e. about 3000 B. C. a hundred years later than the date of the compilation of the other three Vedas. The Mahābhārata story further relates that at a sacrifice performed by Janaka, Yājnavalkya succeeded in establishing the right of the White Yajurveda to one half of the Dakshinā alloted to Yajurveda, after great contention with his maternal uncle Vaisampayana, the champion of the Black Yajurveda.

Rao Bahadur P. B. Joshi of Bombay who is a follower of the White Yajurveda has collected information from several Purānas regarding the personality of Yājnavalkya which may be looked upon as quite historical and we give below its main features. In Mithilā (Behar) lived a Brahmin named Devarātar

called Vājaseni also, as he distributed much food (Vāja) to the poor. His son was Yājnavalkya. (It seems, however, that he was son of Yajnavalka from which word the patronymic Yājnvalkya would arise). He studied the four Vedas with the pupils of Vyasa, learning the Yajurveda from Vaisampayana who was his maternal uncle also. From the Brihadaranyaka Upanishad, we find that Yājravalkya studied Vedānta under Uddālaka Āruni who once said to him "Even a stump would put forth branches and leaves, if water impregnated with Vcdantic power were thrown on it." A story is concocted on this statement in some Purāṇas in which Yājnavalkya is represented to have worked this miracle. He no doubt became a famous Vedanta teacher and was adored as such by Janaka, the well-known king of Mithila. Yajnavalkya had two wives Maitreyī and Kātyāyanī, the former being childless. When he departed to the forest, he expounded his Brahmavidyā to the former. Yājnavalkya who is also called Yogīśvara was, according to P. B. Joshi, a social reformer also; for the wellknown Smriti named after him may not be his work but is based on his liberal teaching.

The Sanhitā of the White Yajurveda exists in two well-known recensions, namely the Mādhyandina and the Kāṇva. There is not much difference in these except the fact that the Kāṇvas have the letter and use the sound las in the Rigveda Sanhitā recension. The Kāṇvas mostly belong to the Deccan and hence probably this use of lamong them. The

difference is more in the Satapatha Brāhmaṇa than in the Sanhitā. The White Sanhitā is divided into forty chapters or Adhyāyas and the total number of mantras is found, on acutal calculation, to be 1975, while the Charaṇa-Vyūha gives the number as 1800. A few mantras, therefore, some might say, have been added later than the date of Charaṇa-Vyūha. But the number therein given is really 1900, itself a round figure according to our view.* Dr. Macdonell thinks that the first 18 chapters are the original ones, as these alone are commented on in the Satapatha. But the number of mantras in these comes up to 1026 only. These mantras are not all metrical, some being in prose. It is only generally true that like the Rigveda the White Yajurveda contains Riks or verses only.

There are, however, no sūktas; in other words each Adhyāya consists of one sūkta only which is always long. It is divided, no doubt, into Anuvākas on what principle it is not quite clear, as in the other Veda-Sanhitās. The number of these Anuvākas is 303, as given in the Sarvānukramaņī of this Veda, printed at the end of the edition of this Veda brought out in the Nirnayasagar press with Uvaṭa's Bhāshya and that of Mahīdhara. A Skshā attributed to Yājnavalkya himself is also printed. The author of the Sarvānukramaṇī is given as Kātyāyana. It is, apparently, a recent one. Uvaṭa, the first Bhāshyakāra, is a Kashmirian of about 1100 A. D.

^{*} द्वे सहस्रे शते न्यूने मन्त्रे वाजसनेयके। (शते न्यूने सति).

The Sarvānukramaṇī and the Bhāshya give the Rishis of the sūktas or rather Adhyāyas as also the metres and deities as usual. The Rishi names are often conjectural or fictitious; for example, the first Adhyāya or sūkta is attributed to Prajāpati. The last Adhyāya, which is the Isāvāsya Upanishad, Uvaṭa Bhāshya attributes to Dadhyañ Ātharvaṇa while the Sarvānukrama gives Brahman as its Rishi. The Ajmer edition gives Dīrghatamas as the Rishi of this sūkta. As the original Black Yajurveda has no Rishis, it seems probable that this divergence of Rishis in the White Yajurveda is due to subsequent different conjectures about them.

There are different Rishis assigned to different parts of the same sukta or Adhyaya which shows that its verses are taken from different sources and where the verses are taken from the Rigveda, the Rigveda Rishi is naturally assigned to it. But this is not always the case, as the well-known Gayatrī mantra of Brahmins appears as verse 2 of the 30th chapter and Nārāyaṇa is given as its Rishi. The Purusha-sūkta appears as chapter 31 and its Rishi is Nārāyaṇa as in the Rigveda.

We do not find anywhere the padas in this Veda enumerated, as in other Vedas, either in Bhāshyas or Sarvānukramanīs, though there is a Pada recitation for this Veda as for others. Taking the average of words as 15 for each mantra as in the Rigveda and three letters for each word, we may find out the approximate extent of this Sanhitā. The Pada-

sankhyā comes to about (1975×15) 29625 and the Akshara-sankhyā to about 88875. This Sanhitā is, therefore, about one-third of the Black Yajurveda Sanhitā and about one-fifth of that of the Rigveda.

The Aimer edition gives the first twenty chapters as Pūrvārdha and the next twenty as Uttarārdha. This is, however, not an old division. The Charana-Vyūha in giving the extent as 1900 verses says that this number includes the Khila and the Sukriya por-In the Anuvākādyāya printed at the end of the Nirnayasagar edition, we find that the last five or chapters 36 to 40 are called Sukriya, the number of their Anuvākas being given as 11 and the ten. preceding chapters viz. 26 to 35 are given as Khila, the number of Anuvākas in them being 35. It may be added that the four chapters 22 to 25 are called Asva, the number of Anuvakas in them being given as 49. These four are indeed Asvamedha chapters. Uvata's and Mahidhara's Bhasyas also call the chapters 26 to 35 Khila and the latter calls the last five chapters Sukriya, quoting a Sruti authorly for the (दथ्यङ् आथर्वणः शुक्रमेतं यज्ञं विदांचकार १४-१-१-१०). name The later portion of this Sanhita, therefore, seems to be chapters 26 to 40.

The nineteen to twenty-one chapters are called. in the Anuvākānukramanī Saura and the preceding: eleven to eighteen Chit; while the first ten are treated together as containing 119 Anuvākas and are given noname. The first twenty-five chapters appear thus tobe the old portion according to both contents and the tradition that 26 to 35 are Khila and 36 to 40 are Sukriya.

The Charaṇavyūha speaks of 17 branches of the White Yajurveda, two of which, the Mādhyandina and the Kāṇva, are well-known. The extent above given is of the first Śākhā Sanhitā while the Kāṇva Sanhitā recension is said to have 2086 mantras including Khila and Śukriya. The Brāhmaṇa of this Śākhā is the Śatapatha of seventeen Kāṇḍas while the Mādhyandina Śākhā recognises Śatapatha Brāhmaṇa of only fourteen Kāṇḍas. The Brāhmaṇa is said to be four times the Sanhitā in the first and three times in the second. This is rather inexplicable unless we hold that the latter divides the Śatapatha into a smaller number of sentences. The Pada, Krama and Jaṭā recitations exist in both these Śākhās.

This Sanhitā gives the subjects nearly in the same order as the Black Yajurveda Sanhitā, the first part of which treats of Pārvaṇa (fortnightly) sacrifices and of Soma in the next and the first ten chapters of the White Sanhitā correspond to these. Next come the fire-altar ceremony called Chit contained in 11 to 18 chapters. Next follow the Sautra or Somapressing corresponding to the 19 to 21 chapters and finally comes the Aśvamedha corresponding to which are the 22 to 25 chapters of the White Yajurveda.

The arguments advanced by Macdonell to hold that the first 18 chapters form the real old portion and that there were four stages in the development of the White Sanhitā do not seem to be strong enough. He admits the testimony of Kātyāyana that

the chapters 26 to 35 are Khila (26 to 29 chapters being supplementary and 30 to 39 entirely new). And yet he looks upon the first 18 chapters only as old. The only argument for this is that these chapters alone are commented on in the first nine chapters of the Satapatha. But it is conceded that there are a few comments on the following seventeen also. More or less comment is made according to necessity and importance and hence more or less comment can not be made a basis for inferring that the latter seventeen are not old.

The Yajurveda, both Black and White, extol Rudra which deity appears in their time to have advanced in popular favour. Chapter XVI of the White Yajuh Sanhitā is the well-known Rudrādhyāya of the older Sanhita condensed and altered here and there. Macdonell points out, however, that even here we do not come across the two names of Siva, Isana. and Mahadeva, though other names of Siva occur. It is still more interesting to remark that there is yet no indication of the identification of the Rudra worship of the Aryans with the Linga-worship of the non-Arvans which was an established fact in the days of the Mahābhārata of about 250 B. C. This identification was made later probably than even the Atharvaveda which in its states 4 and 5 Kanda XV mentions both Isana and Mahadeva along with Pasupati, Ugra, Bhava, and Sarva &c. but contains no mention of Linga-worship In the days of the Atharvaveda the Arvans had advanced into Anga i. e. beyond Benareswhere it may be surmised that the first identification of Linga-worship with Rudra-worship took place and the Siva god of which consequently became the holiest in the whole of India.

Both the Yajurveda Sanhitās are mainly concerned with sacrifice and we find most sacrifices described therein. The White Sanhita, however, goes beyond the Black in mentioning, with many details, Purushamedha or human sacrifce. The Indo-Arvans had horse-sacrifice from the most ancient times: but the Purushamedha is not mentioned both in the Rigveda and the Black Yajurveda. According to the 30th chapter of the White Sanhitä, Purushamedha consists of the sacrifice of a hundred and eighty-four human beings! The Asvamedha is an orgie execrable enough, but this holocaust of human beings, if it was an actual sacrifice, strikes us as both terrible and execrable. It seems to have been borrowed from the non-Aryan cannibal races of the south as some striking similarities are discernible. In the last verse 22 of chapter XXX, eight uncouth men are to be slaughtered in sacrifice to Prajapati, viz. one extraordinarily tall, short, fat, lean, white, black, hairless and hairy man. These enormities of nature were also favourite victims with the Aztecs of Mexico as also the Rakshasas of Ceylon, as described in the Conquest of Mexico by Prescott and the Rāmāyana of Vālmiki. Indo-Aryans had by the time of the White Yajurveda extended their kingdoms as far as Mithila and imperialism had set in. In the Mahabharata, Jarasandha

king of Magadha is shown as comtemplating the performance of a Purushamedha for obtaining the highest power; and Śrī Krishna is shown as saying that Jarāsandha deserved death for the same. Purushamedha, therefore, may be looked upon as the wildest and most absurd development of the cult of sacrifice and there was naturally a revulsion of feeling leading on the other side to the highest development of the Vedānta philosophy.

In this chapter the next sakta is the well-known Purusha-sūkta of the Rigveda which does not appear in the Black Yajurveda Sanhitā. It is a strange application of this philosophic sūkta to an actual Purushamedha or human sacrifice. It is probably from this application that certain scholars, notably Prof. Rajawade of Poona, look upon this sukta as describing an actual human sacrifice which is described therein as an old sacrifice and they believe that human sacrifice was an old institution with the Aryans (तानि धर्माणि प्रथमा-न्यासन्). But we have shown already that this hymn in the Rigveda is addressed to the highest all-pervading Purusha or God and has nothing to do with human sacrifice. The creation of the world from Virāța Purusha or God Manifest is metaphorically looked upon by the Rishi as a sacrifice. Sacrifice is an old rite with the Aryans and even the creation of the world seemed to them to be a sacrifice of the Manifest. Its application, therefore, in the White Yajurveda to an actual human sacrifice, illustrates the immortal maxim of Gibbon, "What is once rhetoric becomes subsequently logic."

It may be objected here that the story of Sunahsepa belongs to the Rigvedic times and proves the
existence of Purushamedha even then. But this
story appears to have been elaborated in the times
of the Brāhmaṇas after the Vājasaneyi Sanhitā was
formulated sanctioning and describing Purushmedha.
Secondly, the alleged intended sacrifice of his son by
Hariśchandra in pursuance of a vow is a different
thing altogether from the Purushamedha described by
the White Yajurveda. That story resembles the story
of Abraham in the Bible, as we will show later when
speaking of the Aitareya Brāhmaṇa which gives it; and
the Bible story has never been looked upon as showing
that human sacrifice obtained among the Jews.

Sacrifice then attained at this time its extremest development. Nay, as Macdonell truly observes, it became all in all and the correct performance of every detail became all important. "Its power is now so great that it not merely influences but compels the the gods to do the will of the sacrificing priest." Even gods, it may further be remarked, obtained godhood, by performing particular sacrifices. And this power it derived from the correct pronouncing of the prayer and the sacrificial mantras. If any wrong accent was uttered Indra was believed to strike the utterer with his vaira. Mantras again derived their power not from their meanings but from their words. nay, their sounds. For synonymous words can not be substituted, says the Satapatha, for the words of any Riks. The mantras which word includes the Riks as well as the prose sacrificial formulas are revealed and eternal and the Rishis only saw them as they existed from eternity. As Macdonell points out, one is surprised to find unnecessary words and even sounds in Yajurveda mantras. But this is inevitable when once the theory is established that mantras have power not from their meaning but from their sound. This theory seems to have been fully established in the days of the White Yajurveda and its Brāhmana the Satapatha. It soon led to the compilation of the Atharvaveda, as we shall presently show, the mantras of which used as charms and spells derive their power from their sounds only. We find sometimes strange words used in such Atharva verses as VI 16-3 (तौविलिकेवेलया वायमैलव ऐलगीत्). Hence also arises the necessity of constantly re-reciting whole formulas with only the change of a word or two, though the repetition strikes us in the present age as absurd; for each rite has to be performed separately with the full wording of the mantra, only suitably changed, in order that it should be efficacious and even legal. Indeed, in many modern Council proceedings in India, one hears such formulas uttered again and again when the Finance Minister puts each item of revenue or expenditure before the Council. These Council proceedings in fact strike one as a sacrifice and one can well realize how the Hotri, the Adhvaryu and the Udgatri repeated formu--lasover and over again as oblations were offered like items of revenue or expenditure, put for sanction.

Macdonell is, however, we think, not right when

he says "Not only do we find the four castes firmly established, but as one of the later books of the Vajasaneyi Sanhitā shows most of the mixed castes known in later times are already found to exist" (p. 184). The book referred to here is the 30th chapter which speaks of Purushamedha. It is a chapter in the Khila section of the Sanhitā. But keeping this point aside, this chapter does not speak of the mixed castes, but of the several professions which were then practised. The four castes are still the only castes existing and the first four caste victims for a human sacrifice are a Brāhmaņa, a Kshatriya, a Vaisya and a Śūdra. Next are mentioned a thief, a fighter, a klība, an iron-worker, a harlot, a māgadha, a sūta, a dancer, an actor and so on. Some of these words are difficult to understand, but that these are different professions and not mixed castes is clear from the last verse 22 of the sükta which states that the magadha, gambler, harlot and kliba are to be neither Sūdra nor Brahmin. This shows that a magadha is here looked upon as likely to be a Sūdra or a Brahmin which can only mean that māgadha is not here a mixed-caste man but a singer of praises in a king's court. The Bhāshyakāra Mahīdhara here adds the gloss, "Caste being restricted with regard to these four, the others may be of any of the four castes." Sūta would thus be a chariot-driver and not a mixed-caste man and might be a Brahmin, Kshatriya, Vaisya or Śūdra by caste. It is curious that Uvata, the earlier Bhashyakara, gives no commentary on this sukta. Magadha, Suta &c. acquired

caste-meanings later. Mahīdhara, in spite of his last gloss, when interpreting Māgadha interprets it as born in Magadha country or born of a Kshatriya woman from a Vaiśya male, and Sūta as born of a Brahmin woman from a Kshatriya. To our mind, the last verse makes such interpretation incorrect and every one of these words in our view indicates a different profession only, the four castes being the only castes recognised in Vedic days. Even the Atharvaveda speaks of the four castes only as will be shown in the chapter on that Veda.

The history of the growth of the mixed castes may be given here succinctly. Formerly, in Vedic times, as even the Manu Smriti lays down, the four castes intermarried in the descending order and the progeny belonged always to the caste of the father. Later on, in Smriti period this rule was restricted to the first two wives and the progeny of the dvyantarā wife was assigned a lower intermediate position. Later still, progeny of a wife of a different caste was assigned to a mixed caste, later still to the caste of the mother and finally in the Bhāshya period marriage outside one's caste was altogether prohibited (see our History of Medieval Hindu India Vol III p. 395).

[There is a Sarvānukrama Sūtra for the White Yajurveda attributed to Kātyāyana who is probably the same as the author of the Rigveda Sarvānukramanī. Although for the Black Yajurveda, the reciting of Rishi, Chhandas, and Devatā is not necessary for any mantra (for in fact this is nowhere given, nor can it be given now as stated already), the White Yajurveda mantras require such recital and these are

given in this Sarvanukramani Sutra (printed at the end of the Nirnayasagar edition). The metres are the same as those detailed for the Rigveda; indeed the same sutras are repeated here. The Rishis are also the same as those for the Rigveda. In each chapter there are verses of many authors put together and hence there are many Rishis for each chapter and these are given in order in the Sūtra, (alphabetical list of these is appended at the end). The Devatas or deities are also nearly the same as those in the Rigveda. Both Rishis and Devatās are sometimes imaginary like Prajāpati or Savitri, or Nārāyana given as Rishis. These have no historical importance as in the Rigveda. The Devatās of the several metres are given by Kātyāyana, as mentioned even in Rigvedic verses viz. Agni of Gavatri, Savitri of Ushnik, Soma of Anustup, Brihaspati of Brihatī, Varuna of Pankti, Indra of Trishtup, Visvedevah of Jagatī, Mitra of Virāj, Aruna of Svarāj, Prajāpati of Chhandas, Vāyu of Vichchhandas, Purusha of Dvipadā and Brahmā of Ekapadā. He adds 'all Riks are devoted to Agni, all Yajuhs to Vayu (Rudra) and all Samans to Savitri.' This is in some respects It is difficult to find out which the fifteen mantras are which Yajnavalkya obtained from the Sun].

NOTE:—PERSONS REQUIRED FOR PURUSHAMEDHA.

The details of the persons, 184 in number, required for Purushamedha given in Adhyāya XXX in detail, are interesting as throwing light on the social condition of the time; and we give these details in this note for the curious reader. First are mentioned the four caste victims; any Brahmin, Rājanya, Vaisya and Sūdra would do. Next come persons following particular professions or of particular descriptions and it is astonishing that women and even boys

are mentioned in the list. Some names are unintelligible though Mahidhara in his commentary tries to explain them. These we give in Sanskrit as they are found, These persons are as follows:—a thief, a fighter, a Klība, an Ayogū (ironfinder), a Punschali (whore), a Magadha, a Suta, a dancer, a Rebhya, a Strīsakha, a carpenter, a potter's son, a smith, a jeweller, a Vāpa (sower), an arrow-maker, a bow-maker, a maker of bow-strings, a rops-maker, a hunter, a dog-keeper. a Punjishtha boy, a Nishāda, a madman, a Vrātya, an Unmatta, a Pratipada, a gambler, an Akitava, a female bamboo-basketmaker, a Kantakakara, a paramour, an Upapati, a Parivitta Yelder unmarried brother), a Parivividana (younger brother marrying before his elder brother), the husband of a younger sister married before her elder sister, a dresser, a Smarakārī, a companion, an Anuradha, a giver of flower presents, a deformed man, a pigmy, a physician, an astronomer, a teller of omens, an assistant of the same, a Praśnavivāka, an elephant-keeper, a horse-keeper, a cowherd, a shepherd, a goatkeeper, a cultivator, a brewer, a house-guard, a treasuryguard, a charioteer's helpmate, a bringer of fuel (from forest), a keeper of fire, an Abhishektā (bath keeper), a food server, a Peshitā (scratcher of idols), a Prakaritā, an Upasektā, an Upamanthitā, a washer of clothes, a dyer, a man with thievish heart, a tale-bearer (Pisuna), a doorkeeper, a fellow door-keeper, a servant, a Paridhānaka, a sycophant, a horse-rider, a body-guard, a heater of iron, a Nisara, a Yoktā, an Abhisartā (tracer of thieves), a Viyoktri, a Trishina, a Manashrit, an Anjanakārī (a woman who prepares Anjana or black pigment), a woman who makes scabbards, a sterile woman, a mother of twins, a mother of dead children, a Paryāyiņi, a woman who is not a mother yet, an Atitvarī, an Atishkadvarī, a Vijarjarā, a Palikni (white-haired), an Ajinasandha (joiner of skins), a

worker in skins, a Dhaivara (fisherman's son), a Dāsa, a Vainda, a Śaushkala, a Mārgāra (hunter's son), a Kaivarta, an Anda, a Mainala, a Parnaka (Bhil), a Kirata, a Jambhaka. a Kimpurusha, a Paulkasa, a Hiranyakara, a Vanija, a Glavin, a Sidhmala, a Jāgarana (constantly awake), a Svapna (sleepy), a Janavadin, an Apragalbha, a Prachchhida, a Kitava (gambler), an Adinavadarsa, a Kalpina, an Adhikalpina, a Sabhasthanu, (these four are connected with gambling), a Govyachha, a Goghāta, a man who begs for cow's flesh, a Charakāchārya, a Sailaga, an Artana, a Bhasha, a Bahuvādin, a dumb man, an Adambaraghāta, a player on the vīnā, a Tūnavadhma, a blower of caunch, a Vanapa, a Dāvapa, a Punschalu, a Kāri, a Śabalya, a Grāmanya (the leader of a village), a Ganaka (village accountant), an Abhikrośaka (village crier), a Vināvāda, a Pānighna, a Tūņavadhma, a Talava, a Pivāna, a Pītha-sarpi, a Chāndāla, a Vansanarti, a Khalati, a Khalvāta (bald), a green-eyed man, a Kirmīra, a Kilāsa, a man with yellowish white eyes, a black-yellowish-eyed man and then the last eight, namely one extraordinarily fat, lean, tall, short, white, black, hairless and hairy man. The list is long and tiresome. There are only three Sūta, Rathakāra and Māghadha which can be interpreted as meaning mixed castes; but these are plainly chariotdriver chariot-maker, and panegyrist-profession man-Low class people of several sorts are mentioned such as Dasa, Kaivarta, Dhīvara and Chāndāla, Four gambling-house officebearers are mentioned, but what their functions were does not appear, the Sabhasthanu probably being the umpire. It is probable that these victims were not actually slaughtered. They were bound to the slaughter stakes as for slaughter, and after being Upākrita or formally dedicated to the respective deities they were released. There is a special deity named for each victim, the deities being thus 184. They include the four Yugas, the five Samvatsaras. and other imaginary deities.

It is interesting to note that among the victims appears a charakāchārya who is to be offered to sin or Dushkrita. If charaka is taken to mean a wandering teacher of the Katha and other branches of the Black Yajurveda, this shows either that these itinerant teachers, mentioned even by Patanjali in his Mahābhāshya, were really a sinful set of men or that there was great enmity between them and the followers of the White Yajurveda. It is necessary to point out that the Taittiriva Brahmana also mentions this victim and to the same deity viz the deity of sin (Kānda III 16). Now Uvata and Mahidhara in their Bhashyas on Vajasaneyi Samhitā merely explain charakāchārya as च्रकाणाम गुरुम while Sayana commenting on the same word in the Taittiriya Brāhmana interprets it as वंशाप्रनतेनस्य शिक्षयितारम्. Nay he interprets दृद्धत also differently as दुर्घटकार्यकरणाभिमानिने. Sayana clearly gives another interpretation to prevent a charakaschool teacher from incurring disrepute.

XII THE ATHARVAVEDA.

The last and the latest Veda is the Atharvaveda. That it is not included in the Trayīvidyā is the best proof of its late origin. Yet many of the hymns contained in the Atharvaveda are as old as the Rigvedic hymns. Indeed, some of them are taken from the Rigveda itself with alterations consciously or unconsciously made, such as the well-known Purusha-sūkta or the hymn to the waters "Apo hi shtha" &c., This Veda chiefly contains mantras used in witch-craft or sorcery, in the curing of diseases, for destruction of enemies, giving encouragement to fighting warrriors These mantras must have been in use and so on. from old times, but they were not taken in the three earlier Vedas compiled by Vyasa, for the obvious reason that their use was for mundane purposes. Indeed Sayana observes in the introduction to his commentary on the Atharvaveda that the three earlier Vedas are for spiritual ends while the fourth and last Atharvaveda is for both worldly and higher purposes. In the tenth Mandala of the Rigveda, there are a few hymns no doubt intended for earthly use such as the humbling of a co-wife. But the Atharvaveda mainly consists of such hymns and only subsidiarily contains hymns intended solely for sacrificial or spiritual purposes. This Veda, therefore, contains, no doubt, many

old hymns; but its compilation was unquestionably made later than that of the other three Vedas. cannot be its compiler though later tradition started after the Mahābhārata, as given in Vishņu Purāna, ascribes its compilation to Vyāsa and Sumantu is supposed to be that pupil of his to whom this Veda was specially entrusted. If a surmise is to be made as to who its compiler was, it may be suggested that Pippalada was the first compiler of this Veda.* From a story in the Purāṇas, it appears that Pippalāda was a sister's son to Yājnavalkya who was sister's son to Vaisampāyana. It is probable that Pippalāda, on seeing that Yājnavalkya formulated a new Veda viz., the Vājaseneyī Samhitā, in protest against Vaisampāyana, was himself emboldened and he formulated the Atharvaveda by bringing together the incantation mantras and by borrowing certain mantras from the Rigveda for ritual purposes in the same way as Yājnavalkya had borrowed some mantras from the old Taittirīya Samhitā. That these incantation mantras were used by Angirasa sages and by Atharvanas was well known. The name 'Atharvangirasah' or simply Atharvanas or Angirasas denoted usually, in Vedic days even, sorcerers or magicians, a meaning which recieves great support from the evil reputation of Magi priests in Persia. Angirasas are said to be dreadful in

^{*} MBh V. 19 (5-8) mentions that Angiras composed the whole Veda and propitiated Indra who declared that the Veda would be known as Atharvangirasah and that Angiras would have an oblation in sacrifices.

a Rigvedic hymn (X 108,10) even. The name which this fourth Veda was given was thus first Atharvangirasah or Angirasa and later Atharva only.

The Atharvaveda gives its own name as Atharvāngirasah along with the names of the other Vedas in X 7, 20. (यस्माह्चो अपातक्षन् यजुर्यस्मादपाकशन् । सामानि यस्य लोमान्य-थर्वाद्गिरसो मुखम्). Here and in one or two other places we have a mention of the fourth Veda as Atharvangirasah and XIX 54,5 mentions Atharva and Angiras separately (कालेयमंगिरादेवो अथवी चाधितिष्ठतः) thus showing that Atharvan and Angiras were distinct personalities connected with the magical mantras. Bloomfield makes a distinction between the two sets, holding that Atharvana mantras were for good purposes while the Angirasa mantras were for evil. And the evil reputation of the Angirasa priests or mantras is attested to even by the Rigvedic verse noted above. But gradually the name of Angirasa dropped out and thenceforth this Veda is generally known, even from the times of the Brāhmanas, as Atharva-veda. Thus the Chhāndogya Upnishad speaks of it along with Rigveda, Yajurveda and Sāmaveda as Atharva-Veda. The reason seems to be that Angirasas are the composers of many good hymns also in the Rigveda. Indeed there is a whole book of the Angirasas, Bharadvaja and others, in the Rigveda. Their composing mantras or incantations for evil purposes was by and by forgotten. Brihaspati became the priest of the gods and he too must have composed mantras for doing evil to the Asuras. It is a remarkable thing that in the whole of the Rig-

veda there is no hymn by Atharvan. He seems to have composed mantras solely for secular purposes even though they might have been for doing good, such as antidotes against snake-poison and so on. His. name, therefore, was restricted to this Veda gradually though in Rigvedic days Atharvan and Angiras were both known as composers of magic spells. A third Rishi appears also in the Atharva-veda as the composer of magic spells viz., Bhrigu and the Bhrigus must also have associated themselves with the Angirasas in these practices. But their name also dropped out like that of the Angirasas and for the same reason; and the name Atharvana finally remained as the name of this Veda. It is interesting to note that the Mahābhārata in a remarkable śloka mentions the four original stocks of Brahmin families as Bhrigu, Angiras, Kashyapa and Vasishtha. The Atharvanas thus never seem to have come into India, for their name is not included in this list of four, nor is it included in the list of the seven great Rishis. Nor is it to be found. in the gotra-prayara chapters of the Srauta Sūtras. There are no Brahmins, so far as we know, who have Atharvan for their gotra or pravara Rishi, though many have Bhrigu and Angiras. The Atharvanas, therefore, it seems, remained outside India and the fact that the word Athravan means a priest in Zend-Avesta strengthens the view that they remained in This may also account for the fact that nohymn by Atharvan appears in the Rigveda, Yajurveda. or Sāmaveda. After the promulgation of the Vājasaneyi Samhitā, Pippalāda probably put together the magic spells which were still current in India, though not considered religious and gave status to them by adding some philosophical, ceremonial and sacrificial sūktas. According to this view, the date of such compilation would be from about 3000 to 2500 B.C. i. e., after that of the Satapatha Brāhmaṇa composed by Yājnavalkya and before that of the Chhāndogya Upanishad which distinctly shows that the Ātharvaṇa Veda was already enunciated.

This compilation in course of time split into different recensions said to be nine, but two of these

* There are two hymns in Rigveda Mandala X ascribed to Bhishak Atharvana and Brihaddiva Atharvana viz. 97 and 120. The first hymn is addressed to Oshadhis (plants) generally and the name Bhishak appears in one verse of it. It probably means a physician only. The hymn is not of the nature of a spell and medicine, as we know, subsequently became an adjunct of the Rigveda. The second hymn (120) is by Brihaddiva Atharvana and is addressed to Indra. The name Brihaddiva with Atharvana added is also mentioned in the last verse of it. The word Atharvana Sāyana explains as a son of Atharvan. We have, however, no hymn by Atharvan himself in the Rigveda and this hymn by one of his sons is the only hymn by an Atharvana found in the Rigveda.

But the sage Atharvan is mentioned in the Vedas as a very ancient sage, as one who first kindled fire. He, therefore, is a real being and belongs to the time when the Indo-Aryans and the Iranians were together in their ancient common home. The Iranians have preserved fire from that time and also the word Athravan meaning a fire-priest. Probably in India other sages kindled fire and even kings and their names were given to these fires which perhaps were, like the Iranian fire, long kept up.

are well known, viz. the Pippalada or the Kashmirean. and the Saunakiya or the southern, the latter being chiefly current in Gujarat and Mahārāshtra. This latter has been published in several places and has been carefully scrutinized by scholars western and eastern. The Pippalada recension has not yet been published but a birch-bark manuscript has been found, unfortunately with the first leaf wanting. The Mahābhāshya of Pantanjali mentions "Sam no devi" etc. as the first. mantra in the Atharvaveda; but it is not the first mantra in the Saunakīya recension as it is found and recited in southern India. Now the first page of the Pippalada recension manuscript being wanting, it cannot definitely be stated if that mantra is at the beginning of the Pippalada recension, though it. is generally believed that it is so. As the Upākarma ceremony among the Rigveda as also other Veda Brahmins, when reciting the first mantra of each Veda, does recite this mantra still as the first verse of the Atharvaveda, the Mahābhāshya tradition is indubitably correct and this shows that the Saunakiya recension was not known to Patanjali. The Pippalada recension seems really to be the earlier one for other reasons also, as will appear later on. The mantra "Sam no devi" &c. is in the 6th hymn of the first book in the Saunakiya recension.

European scholars have studied this Veda with their usual thoroughness and Indian scholars from ancient times down to the present have also done the same. For there is a Prātiśākhya of this Veda, as-

also two Anukramanis, the earlier one being called Panchapatalikā. There are two Sūtras attached to this Veda viz. the Kausika Sūtra and the Vaitāna Sūtra and one Brahmana viz. the Gopatha. Of these we shall speak later on in detail; but these discuss the Atharvaveda in full detail and help in many ways modern scholars as they helped Sāyana who wrote a Bhāsya on this Veda about 1400 A.D. S. P. Pandit edited this Bhāshya in 1890 in India and Roth, Whitney, Bloomfield and others in the west have also published the Saunakiya text and even translated it. With the help of these guides it is possible to discuss the various topics concerning this Veda such as its extent, its formation, its Rishis, its Devatās and so on. These writers mainly discuss the Atharvaveda in the Saunakiva recension and not the Pippalada one, though Whitney has also compared the two recensions carefully and pointed out their differences. We have not the advantage of looking into this recension and we will confine our remarks to the Saunakiya recension.

The Saunakīya recension of the Atharvaveda is divided into twenty books called Kāndas divided into Anuvākas and the latter into sūktas in all about 730. We say 'about' explicitly to show that there is a divergence of editions in this respect. Bloomfield gives this number as 730; but Pandit's edition gives the number as 759 while in the Ajmer edition the number is 731 and Whitney gives the number as 598. It seems that the number is increased or reduced according as the editor splits up individual sūktas into two or more

according to the ascription or Viniyoga of the parts to different purposes. The matter, however, in all the editions is apparently the same. Similarly the number of Riks (verses) or mantras is given as 6000 by Bloomfield (probably in round figures), while Whitney gives the number as 5038 (p. c. XLVII). Here also probably the number differs owing to the combining or splitting up of verses. It is clear that the Anukramanīs have not counted the exact number of sūktas or of verses for this Veda as they did for the Sakala recension of the Rigveda, the number of suktas in which is uniformly given as 1017 and of verses as 105801, In Pandit's introduction we find that several Gujarat manuscripts give the number of verses as 6015 while one gives the Grantha-Sankhyā as 6630. As Grantha according to modern Sanskrit writers, means 32 letters this gives the figure for letters as $6680 \times 32 = 2,13,760$ while the number of letters for the Rigveda is 4,32,000. The number of hymns and of letters for the Atharvaveda as compared with the Rigveda shows that its extent exceeds one-half of the latter by a small quantity. The twenty Kandas again have been divided into four sets or Prapathakas, the first containing seven, the next eighth to twelfth, the third thirteenth to eighteenth and the fourth the last two. The apparent plan of the compiler of this Veda shows itself in this arrangement. The last two books are practically a Khila portion and did not probably form part of the first compilation. Leaving these out of view, we find that the first seven Kandas contain short hymns on

miscellaneous subjects and these again are arranged in this order viz. the first book contains hymns of four verses, the second of five and so on to the fifth which contains hymns consisting of eight verses. The sixth book contains hymns of three verses and the seventh of one verse only. This is the rule, there being exceptions here and there which are looked upon by the Anukramanis as Vikriti or abnormal. The second set of books VIII to XII contains long hymns of a miscellaneous character while the third set XIII to XVIII contains long hymns on one subject each. Thus book XIII is called Rohita Kānda because it has hymns addressed to the red sun: Book XIV is called Vivaha Kānda, consisting as it does of two hymns on the marriage ceremony. Book XV is called Vrātya Kānda as it contains hymns addressed to Vrātva; what Vrātya is it is difficult to decide as both Sāyana and Whitney do not explain it; but it is certainly not the Vrātya of the Smritis viz. Aryans devoid of the Sanskāra of Upanayana.* Book XVI is on bad dreams and book XVII has one hymn addressed to Vishāsahi or the Trenchant One. Book XVIII is called Yama-Kānda and it contains many hymns to be recited at funeral ceremonies. This Kanda is looked upon as inauspicious and is not learnt by heart by Vaidikas. That the first or original compilation was of this extent and in this order is apparent from hymn 23 of the nineteenth Kanda which is plainly supplementary. This hymn gives in a way the contents of the Atharva-

^{*} Vr atya appears to mean here God himself.

veda and describes its Rishis in the manner used by the Aśvalāyana Grihya-Sūtra viz. Śatarchins. Mādhyamas, Kshudrasūktas and Mahāsūktas as follows.—

'Svāhā' to the Rishis (or sūktas) of 4 verses from among the Atharvanas, of five verses and so on up to Rishis of eighteen verses; then 'Svaha to the nineteen and the twenty, again Svāhā to the great Kānda to those of three verses, of one verse, to the insignificant (Kshudra), of less than one verse.' This description is intended to apply to the first twelve Kandas. For the next five are hereafter described by their names and the number of their hymns as follows:-'Svāhā to the Rohita hymns (XIII), to the hymns (two) of Sūryā (XIV), to the two Vrātya hymns, (XV) to the two Prajāpati hymns (XVI), to the Vishāsahi hymn (XVII), to the Māngalika hymns (XVIII). The duel number of Vrātya and Prajāpati hymns does not correspond to the existing hymns in these Kandas. But as the number is significantly correct of the other Kandas, it is probable that the number of hymns in these two Kandas has increased after the addition of this nineteenth Kanda. The hymns of this (XIX) Kanda, according to Whitney, are distributed over other Kandas in the Pippalada recension. Bloomfield has pointed out that with the exception of the Kuntapa suktas, the hymns of the twentieth Kanda are all taken out of the Rigveda, being required for recitation at the Soma sacrifice as Sastras and Stotras according to the Vaitana Sutra. About 1200 of the Atharva mantras in all are taken from the Rigveda

chiefly from the tenth, first and eighth books; and of the 143 hymns of Book XX, all but ten are taken bodily without any change (Macd. p. 186).

THE RISHIS OF THE ATHARVAVEDA

The above noted hymn XIX, 23 is distinctly a later hymn, describing the Atharva Sanhitā with its hymns as it nearly is to-day. It mentions no names of the Rishis of the sūktas but uses the general term "Atharvana" as it subsequently was assigned to the Rishis of this Veda, supplementing the names of Angirasa and Bhrigu. Here these Rishis are collectively called Atharvana. The Sayana-Bhashya as published by Pandit gives no names of the Rishis or seers of the several hymns; and the Ajmer edition also gives no names of seers. The Gopatha Brahmana story given in the beginning of the Brāhmana that Brahmā first created Bhrigu from his sweat and Bhrigu became Atharvan and the latter became Angiras, that Atharvan performed austerities and twenty Atharvana Rishis were born viz., those of one verse, of two verses and so on and these saw the Angirasa mantras. "The Rishis being twenty the Veda was also divided into twenty Kandas". This story is no doubt absurd as the twenty Kandas are not each of a separate Rishi and it has been properly rejected by Bloomfield as a later one. But all the same the story belongs to the Gopatha Brahmana which, though a very late production, cannot be later than the Sarvanukramanis, the older Panchapatalikā and the later bigger one. It seems,

therefore, probable that for a long time the Rishis of the hymns were called generally Atharvanas or Atharvan and Angirasa with the addition of Bhrigu and The dates of these two Brahman here and there. Ankramanis are not known; but apparently they are later than even the Sayana Bhashya which could not have ignored them. The Bhashya does not, therefore, give the Rishis of individial suktas; but Whitney in his translation of the Atharvaveda gives the Rishis of the sūktas from the Sarvānukramanīs. These Rishi names are very often fancied and fanciful like Uchchhochana, Unmochana &c. The names of the Rishis of the sūktas which are taken from the Rigveda are taken naturally enough from that Veda, such as Sindhudvīpa the name of the author of the sūkta 'Sam no devi'; but this is not necessarily always the case. Even in the Rigveda, the Rishi name is sometimes coined from the contents of the hymn; as for example Nārāyaņa, the name of the Rishi of the popular Purushasūkta (X, 90) or Sūryā the name of the Rishi of the wedding hymn (X, 85). These names are the same in A. V. This method of coining names is oftener followed by the Sarvanukramanis in assigning authors to the hymns of the Atharvaveda and hymns are assigned to Brahman, Prajapati, Yama &c. XIX, 13 is assigned to Apratiratha (the matchlesss warrior). a coined name assigned to the author of the same hymn in the Rigveda (X 103) also. Hymns against snake poison are naturally enough assigned to Garutman meaning the heavenly eagle. The total number

of Rishis mentioned in the Anukarmanis is not large and Whitney has given an index of these names which will be found in our general index of Rishis given at the end. It is remarkable that for the Vrātya hymns no Rishi is assigned and that the Rishi assigned to the funeral hymn is Atharvan. Thereare 175 hymns assigned to Atharvan and 100 hymns assigned to Brahman (Whitney p. 1038) and hence also this Veda may have been called Atharvaveda or Brahmaveda. The hymns assigned to Atharvangiras are only 17 and to Angiras 15. This will also explain why these names as denoting this Veda subsequently fell out of use. (Atharvangirasa may be explained as a Dvandva compound, meaning Atharvan and Angiras, or more properly perhaps as Atharvana the same as Angirasa (Karmadharaya). Curiously enough, three hymns against worms are ascribed to Kanva as also three for winning the love of a woman. Four hymns for success in gambling are ascribed to Bādarāyani. It may, however, be noted that there are very few names of Rigvedic fame in the list of these Rishis. Vasishtha, Gritsamada and so on are conspicuous by their absence. There are one or two hymns only assigned to Viśvāmitra and Kaśyapa who may have composed some magic spells against evil. The Gavatri of Viśvāmitra is strangely enough not to be found in the Atharvaveda. The Rigvedic Rishis are, however, respectfully remembered among the names or Pitris in the funeral Kanda (XVIII 3 15-16) viz., Kanva, Kakshīvān, Purunīdha, Agastya,

Jamadagni, Atri, Kasyapa and Vāmadeva.* This is natural as the Rigvedic Rishis and the Rigveda as also Yajuh and Sāman were honoured by all Brahmins in Vedic times, no difference based on Veda having till then arisen among Brahmins.

METRES.

The Atharvaveda consists chiefly of verses but there is considerable prose in it also, very often in the Brāhmana style repeating words again and again. The verses are generally in the Anushtup metre. Gayatri and Trishtup also occurring now and then. It is remarkable that the seven chief metres of Vedic poetry are given by name in XIX and a hymn of the eighth Kanda (VIII 5-9) gives the number of syllables in them increasing by four successively. That the Vedic poets must have been conversant with the different names and the quantities of the metres they used goes without question; but this reference in the hymn to the several metres and their differing syllables and certain irregularities in them shows that there was already a deal of study in prosody. It seems that the longer metres of more than 48 syllables, Dhriti &c. were not yet recognised though stray examples of them do occur in the Rigveda. The metrical composition of the Atharva

कण्वः कक्षीवान् पुरुमीढोअगस्त्यः इयावाधः सोभर्यर्चनानाः ।
 विश्वामित्रोयं जमद्विरित्रदिन्तु नः कश्यपो वामदेवः ॥१५॥
 विश्वामित्र जमद्वे वसिष्ठ भरद्वाज गोतम बामदेवः ।
 शर्द्वो अत्रिरम्भीसमीभिः झशंसासः पितरो मृहता नः ॥१६॥

hymns is, however, irregular and not finished like that of the Rigvedic hymns.

DEITY AND ASCRIPTION.

The deities (Devatās) of the several hymnsand their ascription (Viniyoga) are also given in the two Anukramanīs and they are also given in Sāyana's Bhāshya from the Sūtras and various other sources. The deities are the usual Vedic ones, Indra, Varuna, Agni, Sūrya and so on. But there are many hymns in which the deities are quite different being earthly obejects and are not inferable from the contents or their Viniyoga or ascription; they must have been given by the Sūtras and the Anukramanis from actual practice as also from contents though not always suggested by them. As stated already, the hymns to be used solely for sacrifice are very few. Most of the Atharvavedic hymns are used as spells or incantations for various purposes which are grouped under distinct heads by writers as follows:-I Bhaishaiyāni or hymns for medical purposes, II Ayushyani for long life, III Abhicharakani for sorcery, IV Krityapratiharanani for destroying the sorceries of others, V Strikarmani for securing the love of women, VI Rājakarmāni relating to royalty such as for coronation, battles &c, VII Saumannasyani for securing one-mindedness or influencing assemblies, VIII for prosperity in agriculture, cattle &c. and IX for expiation of sins. There are some highly philosophical and theosophical hymns also, especially in

the tenth Kāṇḍa which explain why four out of the ten chief Upanishads are attached to this Veda. These various purposes are served not only by reciting these hymns as spells but by using certain herbs also and this embodies the earliest attempts at medicine. There is one hymn in XIX reciting the Nakshatras which is an advance on the Nakshatra sūkta of the Taittirīya Sanhitā as it mentions Abhijit. The list, however, begins with the usual Krittikās. XIX 8 the next hymn actually states that the mansions of moon are 28 and also mentions Yogas, while the next (XIX 9) mentions Ulkās or shooting stars and other astronomical phenomena with their astrological evil prognostications.* This Kāṇḍa is a later addition and these facts therein are a further proof of its lateness.

ATHARVAVEDA AS HISTORY.

The hymns of the Atharvaveda are mostly spells and incantations and hence they contain very few facts which can be of historical interest. We rarely come across such a statement as is contained in V 19 मुगुं हिसिसा सृजया वैतहब्या पराभवन् ॥. These hymns extending over a very long period of Indo-Aryan history however, show the social condition of the people during that long period. The Indo-Aryans had advanced as far as Magadha and Anga which are distinctly mentioned in a hymn (V 22) against fever called Takman in this Veda. Takman is called upon

^{*} नक्षत्रमुल्कामिहतं शमस्तु नः शं नोमिचाराः शमु सन्तु कृत्याः ॥ शं नो निखातावल्या शमुल्काः देशोपसर्गाः शमु ने भवन्तु ॥ १.

to depart into "Magadha and Anga" on the east and into "Gandhara, Mujavat (Mt) and Balhika beyond." This shows that the Aryan land extended from Gandhāra on the west to Anga on the east. Bālhika in this hymn is said to be beyond Mujavat and thus Gandhara was probably included in the Aryan land. The disease prevalent in this Indo-Aryan land was fever as now and it is asked to depart beyond its limits and go to its own habitat viz. Mūjavat, Bālhika and Mahāvrisha; ओको अस्य मूजवन्तः ओको अस्य महावृषाः। यावज्जात-स्तक्मंस्तावानासि बल्हिकेषु न्योचरः ॥५॥ (What this tract महावृष is cannot be determined; but Bālhika is modern Balkh). It is curious to find that in one verse of this hymn (V 22, 7), Takman is asked to go to a Sūdra fat woman and shake her. तक्मन् मूजनतो गच्छ बाल्हिकान् वा परस्तरान् । शुद्धामिच्छ प्रकष्यों तां तक्यन् वाव धूनुहि ॥ It seems that malarial fevers prevailed more among the Sūdras in the Indo-Aryan land than among the Aryan people.

This and several other hymns chiefly show that the people were divided into four castes. The three higher castes, together called Ārya, being sharply divided from the fourth called Śūdra. The Āryas, however, did not at this time hate or oppress the Śūdras and blessings are invoked on both Ārya and Śūdra भिरं सर्व अब अब अब (XIX 6). The Kshatriya and Vaisya are mentioned in IV 22 and Indra is asked to make them prosperous. Vis are the settled agriculturist Aryans and form the subjects and the king, a Kshatriya, is their ruler. Brahmins who are mentioned in several hymns had by this time begun to

be hated or oppressed by kings and one hymn (V 19) contains several imprecations against such oppressors. Kings and nations where Brahmins are oppressed do not prosper." उपो राजा मन्यमानी बाह्मणं यो जिवन्सति । परावत्-सिच्यते राष्ट्रं बाह्मणो यत्र जीयते ॥ (V 9-6). This persecution of the Brahmins was a natural result of their sacred position and it characterised social relations in later days probably, later even than the days of the Brahmanas. The cow was specially prized and revered. A long hymn (X1I 4) praises the cow, here called Vasa; and gifts of cows to Brahmins are also praised. The Indo-Aryans, as stated before, were already divided into three castes and the Śūdra, fourth caste, devoted to the service of the three had already, in Rigvedic later days, been included in the state or Rastra. The intermediate castes are, however, not mentioned in the Atharvaveda and they appear to be a still later social development.

The Indo-Aryans were still an argicultural people and the Atharvaveda still prays for prosperity in agriculture, horses and cattle. The people, generally called Viś or subjects, were ruled by kings who were apparently elected and there are hymns for the coronation of kings and for the return of exiled kings. The states, which were always small, were not called kingdoms or Rājyas but Rāshtras (as in XIX 24) which shows that the people were still powerful. The kings were, however, forceful and special ceremonies were performed to make them so, such as the fastening of a mani or jewel and of darbha (XIX 27 to

33). The last hymn of XIX mentions Rājasūya. These kings often fought amongst themselves and also with non-Aryan enemies. The cousins or Bhrātrivyas are often spoken of as enemies and may be identified with the Asuras or Persians. Nīla-lohita fis supposed to kill the Bhrātrivya with his Nīla or blue portion and enemies with the red, नीलेनिवापियं भातृष्यं भोणीति लोहिनेन दिवन्तम् विष्यति (XV 1-8). These Bhrātrivyas may be their own brother Indo-Aryan kings.

Turning to the social condition of the people, we find the marriage customs still the same as in Rigvedictimes though the marriage hymns disclose a few changes. Indeed the marriage sukta of the Rigveda (X 85) is taken bodily in the Atharvaveda but with some important changes and is extended into two long sūktas with 64 and 75 verses forming the whole Kānda XIV. The taking of the hand of the bride by the bridegroom is, as before, the most important ceremony and the gift of the bride rests with her father, the bridegroom going to him to sue for her. But the taking of the bride's hand appears to take place at her house as now and not at the bridegroom's. house, as the bridal procession, the most gorgeous. function, is mentioned again. Curiously enough, the Atharvaveda sūkta omits the prayer for ten sons appearing in the Rigveda sūkta. The blemish attaching to the garment worn by the bride at the time of marriage still remains. The consummation mantras are included in the Atharva marriage hymn and it seems that the consummation of marriage took place

soon after marriage. Many more mantras are to be repeated and cows and kambals are to be gifted for securing long life and progeny to the couple.

Kānda XVIII relates to the funeral ceremonies. and begins with the praise of the world beyond and Yama, the king of the dead. The ancient forefathers, the Angirasas, the Navagvas, the Atharvans and good Bhrigus* are remembered, as also Vivasvan in verses which appear in Rigveda also (X 14, 6). The hymns in this Kanda have many verses common to the Rigveda though there are many in addition. Dead bodies were usually burnt; but the Anagnidagdhas are also spoken of. The widow sitting by the side of the dead body of her husband on the funeral pyre in response to the old custom of Satit is also referred to here and is asked to come down. The Kanda brings together all the mantras to be recited at the funeral ceremony; and the Śrāddhas end with namaskāras to all Pitris or forefathers.

The following passages regarding the Atharvaveda from Macdonell attract the attention of the reader. "The spirit which breathes in it is that of a prehistoric age. A few of its actual charms probably date with little modification from the Indo-European period; for, as Adalbert Kuhn has shown, some of its spells for curing bodily ailments agree in purpose and

* आङ्किरसो नः पितरो नवग्वा अथर्वाणो भूगवः सोम्यासः । विवस्वन्तं हुये यः पिताः तेऽस्मिन् वर्हिञ्यानिपद्या ॥ XVIII, 58-59, † इयं नारी पतिलोकं चृणाना निपद्यते उप त्वा मर्त्य प्रेतम् । वर्म पुराणमदुपालयंती तस्यै पूजां द्वविणं चेह धेहि ॥ XVIII, 8-1. content, as well as to some extent in form, with certain old German, Lettic and Russian charms." "It contains more theosophic matter than any of the other Sanhitās. For the history of civilization, it is on the whole more interesting and important than the Rigveda itself" (p. 186)

"In Patanjali's Mahābhāshya the Atharvaveda had already attained to such an assured position that it is even cited at the head of the Vedas and occasionally as their only representative" (p. 189).

"Among the cosmogonic and theosophic hymns, the finest is a long one of sixty-three stanzas addressed to the earth (XII 1). The following will give some idea of its contents and style.

"The earth on whom with clamour loud Those that are mortal sing and dance; On whom they fight in battle fierce, This earth shall drive away from us our foemen And she shall make us free from all our rivals."

The hymn to Varuna (IV 16) exalts divine omniscience in a strain unequalled in any other Vedic poem.

'This earth is all King Varuna's dominion
And that broad sky whose bounds are distant;
The loins of Varuna are these two oceans,
Yet in this drop of water he is hidden.
He that should flee beyond the heaven
Would not escape King Varuna's attention;
His spies come hither from the sky descending
With all their thousand eyes the earth
surveying" (p. 200-1).

Certain queer statements in the Atharvaveda may finally be noticed. The epithet Nīlalohita is explained by stating that Sava's belly is blue and his back is red (नीलमस्योदरं लोहितं प्रष्ठम XVI 7). This description applies to the rainbow. The Rathantara Saman isplaced in the east, Yajnāyajnīya and Vāmadevya in the south, Vaīrūpa and Vairāj in the west and Syeta and Naudhasa in the north. In XV 14 Maruts are placed in the east and Indra in the south. What Jangida (জাই্ট্ৰৰ) is which is invoked in XX 34 and 35 for protection and for killing of enemies is an enigma. Sāyana explains it as ओषधिविशेष (a kind of herb). It may be noted that Purusha-sūkta appears in this Veda as XIX 6 with a few changes among which is छन्दो ह जिज्ञे तस्मात, that the Nakshatras including Abhijit are mentioned in XIX 7 and that Itihāsa, Purāna, Gāthā and Nārāsansis are usually mentioned with Rik, Yajuh and Sāman.

NOTE 1—THE KUNTĀPA SŪKTAS.

The Kuntāpa sūktas are given in the Atharvaveda chapter XX (127-136). They are not found in the Rigveda Śākala sanhitā as we have it. They must have been taken by the compiler of the twentieth chapter of the Atharvaveda which, as we have said, was added later on for sacrificial purposes, from some other Śākhā of the Rigveda or from a khila as supposed by Sāyaṇa. That they are required for sacrificial purposes is certain from Aitareya VI 32, 33 and Kaushītaki XXX 5. The former does not use the word Kuntāpa but the latter does. The former, however, gives the particular names of the parts Nārāśansa, Raibhi, Kāravyā

Parikshitiyā and so on which are assigned to them from actual words used in the verses. The Gopatha Brahmana follows here the Kaushītaki almost word for word and with certain additions such as an explanation of the name Kuntāpa as will be noted in the section on Brāhmanas. Whether the Atharva compilation is referred to here in the Aitareya and Kaushītaki Brāhmaņas or whether these quote from floating materials or from another Śākhā of the Rigveda, it is difficult to decide. possible to suggest that the Atharvaveda compilation is earlier than Kaushītaki alias Śāmkhāyana at least, as it gives the name Kuntāpa; and even the Aitareya which, though it does not give the name Kuntapa, gives the names of the component parts of the hymn, the mentioning of the name Kuntāpa not being absolutely necessary. But we find in Kaushītai (IV 10, 11) a mention of three Vedas only by name and the fourth priest Brahman is shown as knowing and working with the aid of these three Vedas only as in the Satapatha. The mention of Kuntapa hymns and the name Kuntāpa, therefore, lead to no conclusion as to priority.

Note 2—THE DATE OF THE COMPILATION OF THE ATHARVAVEDA.

We have taken the date of the compilation of the Atharvaveda to lie between the date of the Satapatha Brāhmaṇa (c. 3000 B.C.) and the date of the Chhāndogya Upanishad (c. 2500, B.C.). Our dates of these two works are much earlier than the ones assigned to them by European scholars and we will give the detailed arguments for our dates when we come to speak of these works. We will simply show here how the Atharvaveda compilation must be placed after the composition of the Satapatha and before that of the Chhāndogya Upanishad.

The latter work distinctly mentions, as stated already, Rigveda, Yajurveda, Sāmaveda and Atharvaveda and in this order. The Sathapatha in its original extent viz upto the tenth Kanda does not mention the Atharvaveda but mentions the other three Vedas. Bloomfield in his introduction to the translation of Atharvaveda in Max Mullar's Oriental Series has collected together all the references to the Atharvaveda in Vedic literature, thus laying researchers in Vedic literature under great obligation; and we will draw upon them freely in this note in addition to those we have come across. Most of the suktas of the Atharvaveda which, as we have shown, are generally spells, were undoubtedly in existence long before the compilation of the Atharvaveda was made. It is no wonder, therefore, that the Atharvaveda itself speaks of these spells in some of its hymns as Atharvangirasah along with Rik, Yajuh and Saman (A X 7, 20 यस्माहचा अपातक्षत् &c. verse already quoted.)

The three-fold division of sacred utterances as Rik, Yajuh and Sāman was known even before the Rigveda was compiled, from the well-known Rik in Purashas ūkta. ऋचः सामानि जित्तरे। छवांसि जित्तरे तस्माद्यज्ञस्तसमादजायन।* It seems there was also

*Swami Dayānand interprets the word Chhandānsi in the above verse differently. He thinks it refers to the Atharvaveda and thus holds that all the four Vedas are indicated in this verse. In support is quoted Gopatha I 1, 29 wherein the chhandas of Atharvaveda is given as 'Sarvāṇi Chhandānsi'. The wording of this verse is no doubt a little ambiguous. But if we believe that the Atharvaveda was not compiled at the time of the Purusha-sūkta, indeed not even the three other Vedas, we must interpret this verse differently. The word chhandānsi can not be taken to mean metres; being placed along with Rik, Sāman and Yajuh, it cannot mean metres. We have interpreted the verse as follows—"From that all embracing sacrifice were produced first the Sāman Riks (verses): from it were produced the

then a fourth division viz. of spells and incantations which was known as Atharvanas, Angirasas or both together. The first three, however, are usually mentioned as in A VII 54, 2, XI 6, 14, XII 1, 38, XV 3, 68; and it seems clear that their compilation was also already made before that of the fourth; for the word Veda clearly occurs in A VII 54-2 as applied to these three in the sense of a religious compilation ऋषं साम यदमाक्षं हिंगीजो यञ्चलम् । एष मा तस्मान्मा हिंसी: वेदः पृष्टः राचीपते. It is interesting to trace how the word Veda gradually changed its meaning. Here in this verse (A VII 54, 2) it appears to be restricted to the three Vedas. But in the Satapatha Brāhmana, even in Kāṇḍa XIII, the word means merely a branch of knowledge and is applied to different branches. This passage in Satapatha XIII 4-3 de-

Chhandansi and from it was also produced the Yajuh or sacrificial formula". Chhandansi should naturally mean thus the metrical utterances; being different from verses sung they would refer to the ordinary Riks. This word Chhandas is thus not indicative of any Vedic compilation. It is an old Aryan word, the Zend of the Iranians. It may be translated as a metrical sacred utterance. The meaning metre is a later one naturally arising from this by lakshanā. Further the word Chhandas in 'Chhāndogya' cannot mean metre but must mean metrical sacred utterances. The most decisive proof would be the verse in the Bhagavadgita छन्दांसि यस्य पर्णानि यस्तं वेद स वेदवित. Here the word cannot mean metres; for they are seven or fourteen only, while leaves must be innumerable. It cannot mean Atharva verses only. It means here the metrical sacred verses of Rigveda or of all the Vedas. The Purush-sukta verse makes a distinction between the verses sung and those not sung and hence the word there may be taken wholly to mean Rigvedic verses. The meaning metre or measure had no doubt already arisen as 'sapta chhandansi' are also referred to in several Rigvedic verses. But it is not its primary meaning. Metrical utterance is in natural evolution earlier than the perception of its measure, the metre.

serves to be quoted in full. After speaking of the sacrificial horse being let loose, the Pariplava is detailed as follows:—

"First day, Manu Vaivasvata is the king, the subjects (Visah) are human beings and the Veda of Riks is to be recited to them (नानुपाईशत्यूचां वेदः). On the 2nd day, the king is Yama Vaivasvata and the ancestors or manes (Pitris) are the subjects; the Veda of Yajuh is to be recited to them (यज्रंबि Fa:). Varuna Aditya is the king on the third day and the subjects are Gandharvas, young and well-dressed; the Atharvana Veda is to be recited to them. On the fourth day, Soma Vaiśravana is the king and the Apsarasas are his subjects: to them is to be recited Angirasa Veda.* On the fifth day Arbuda Kādraveva is the king and the subjects are serpents and to them is to be recited Sarpa-Vidyā Veda. On the sixth day Kubera Vaiśravana is the king and his subjects are the Rākshasas; to them is to be recited Devajana Vidvā Veda On the seventh day Asita Dhanva is the king; his subjects are the Asuras; to them is to be recited Maya Veda. 'Some feat of illusion is to be performed also.' On the 8th day Matsya Sammadas is the king and his subjects are fish and those who kill fish: to them Itihasa Veda is to be recited. On the ninth day Tarkshya Vaipasyati is the king and birds are the subjects as also the killers of birds and Purana Veda is to be recited to them. And on the tenth day Indra is the king and the subjects are the gods. The Veda to be recited to them is of Samans, and a dasata of Samans is to be recited (साम्नां दशतं व्यात् ।). "

This long extract we give specially because the passage is of great historical interest in many ways. First

*This mention of two Vedas Atharvana and Angirasa in Satapatha XIII suggests the surmise mentioned earlier that Pippalada must have put them together after the Satapatha The material was already there before him.

Samaveda is clearly looked upon as the highest branch of knowledge and we thus understand the propriety of the Gītā saying "I am Sāmaveda among the Vedas". The Sarpa-Vidyā and Devajana-Vidyā were again two branches of knowledge which have now disappeared. They are noted in thesevery words in the Chhandogya Upanishad along with the four Vedas, but the term Veda is not applied to them. Thirdly. Rākshasas are here said to be the subjects of Kubera Vaiśravana who is, however, later known as the king of Yakshas. This establishes the truth of the story in the Rāmāyana that Yakshas and Rākshasas were one people originally and the word Devajana applied to both Yaksha and Rākshasa. Lastly, the Asuras are a distinct people and their king is Asita Who this person is, neither Vedic nor Puranic Dhānya. legend, so far as we know, tells us.

The connection of Itihāsa with fish and fish-hunters is strange. Pērhaps Vyāsa's being the son of Matsyagandhā, a fisherwoman, is here hinted at. The connection of Purāṇas with bird-hunters may similarly be explained by the story of Vālmīki writing the Rāmāyaṇa on seeing a hunter kill a Krauncha bird. These stories, therefore, appear to be very old. The Asuras were well-known for their Māyā and there was some Vidyā then of creating illusions. It is interesting to find that the Gopatha Brāhmaṇa (I 10) gives exactly these Vidyās as the five Upavedas of Atharvaveda viz: 1 Sarpaveda, 2 Pišāchaveda, 3 Āsuraveda, 4 Itihāsa and 5 Purāṇa.

Śata patha X 5, 2, 20 contains nearly the same idea as is expressed in XIII above given. "The Adhvaryus know it as Yajuh, the Chhandogas as Sāman, the Bahvrichas as Uktha, the knowers of magic (Yātuvidaḥ) as Yātu, the knowers of serpents as poison, gods as Urk, men as Rayī (wealth), Asuras as Māyā or illusion, Pitris or manes as Svadhā, knowers of Devajana as Devayāna, Gandharvas as beauty

and Apsarasas as fragrant smell." This shows that magic spells or Yatu were the fourth subject of study in the days of the Satapatha. These were, thereafter, naturally put together in a fourth compilation which gradually acquired the status of a Veda, having some portions purposely introduced, intended for sacrifice and marriage and funeral ceremonies.

Leaving these historical facts unconnected with our present enquiry aside, what is pertinent here to remark is, 1stly, the word Veda has a general sense as a branch of knowledge and has not the restricted sense which later it assumed and is not confined to the four Rik, Yajuh, Saman and Atharvarna. 2ndly, the mention of a dasati of Saman shows that the Samaveda was most probably already compiled and necessarily. therefore, the Rigveda and the Yajurveda as appears from the hymn (A XV 54) already noticed. And lastly, the Atharva-Veda was not yet compiled; for the Atharvana branch of knowledge and the Angirasa branch are here spoken of separately. The Atharvaveda compilation does not consist of two such distinct parts. The meaning, therefore, seems to be that the Atharvana or auspicious spells were known as a separate branch of knowledge. The present Atharvaveda itself (A VIII 5, 9) speaks of Angirasi Krityas. These two sorts of mantras were, later on, put together not as two distinct portions but as one Veda giving the two sorts indiscrimi-We may, therefore, safely conclude that the present Atharvaveda compilation is later than the Satapatha Brahmana even in its later portion. The older portion of the Brāhmana (X 52-20) mentions the inauspicious hymns or spells only as yatu-vidya; but this does not invalidate the above conclusion, as inauspicious hymns were known long before as a branch of study and are referred to even in the Rigvedic hymn of Saramā (X 108, 10).

A more explicit statement is that in Satspatha XI

Adhyāya 5 section 7 speaking of Svādhyāya or daily sacred recitation. The Satapatha prescribes Rik, Sama, Yajuh, Vakovākya, Itihāsa, Purāna and Nārāsansis here; while in the preceding 6th section, it also mentions Atharvangirasah after Sāmāni and before Vākovākyam. The clearest proof follows in section 8 where the words Rigveda, Yajurveda and Samaveda are distinctly used and Atharvaveda is not mentioned at all as produced by Prajapati.* The priests at a sacrifice. are spoken of as four viz. Hotri, Adhvaryu and Udgātri / with the fourth called Brahman. It is asked, by what Veda will the Brahman do his duty? (the Hotri having the Rigveda, the Adhvaryu the Yajurveda and the Udgātri the Sāmaveda); and the answer is given that the Brahman should do his duty by the same three vidyas. † In later times, when the Atharvaveda was compiled and had acquired the full status Veda, the Brahman was to be a professor of that Veda. may also point out here a passage in the Taittiriya Brahmana which will be discussed in full later on, wherein Rigveda, Yajurveda and Samaveda are distinctly mentioned but not Atharvaveda (T. B. III 12,9). The compilation of Atharvaveda is thus even later than T. B.

The word Veda is found in one verse of the Rigveda itself viz: VIII 19, 5. Its meaning there is apparently not so extensive as in the above passage of the Satapatha and the sentence in the verse viz: "He who pleases Agni with Veda" no doubt contemplates the three Vedas apparently. But as the compilation of the three Vedas cannot be taken to have been made before this hymn was seen, we must interpret the word Veda here as meaning any sacred utterance, though Sāyana interprets it as Vedādhyayana referring to all the four Vedas. The word Veda also occurs in the Atharyayeds

*प्रजापितस्तपो तप्यत । ...अग्नेर्यहरिवेदी वायोर्यजुर्वेदः। † यष्ट्रचा होत्रं क्रियते ब्युड-वार्ध्व वि सान्नोद्वीयोऽथ केन वधात्वमित्यनया अय्या निद्ययेति व्ययत ।

hymn already noted (XV 3) and in the seventh verse between the 6th and the 8th noted by Bloomfield and mentioning separately Rik and Yajuh in the first and Saman in the second. Here the word must, therefore, mean something else than ig. the Rigveda verse. For in the throne (Asandi) supposed to be raised for Vrātya, Veda forms the coverlet while Riks form the right strings and Yajuhs the left strings and Saman the Asada. Veda, therefore, here stands for knowledge generally. ऋखः प्राञ्चस्तन्तवो यज्रंषि तिर्यञ्चः । ६ । वेद आस्तरणं ब्रह्मोपबर्हणम् । ७ । सामा-साद उद्बीधोपअय: । < । तामासन्दीं वात्य आरोहत् । ९ । (Brahman here stands, to our mind, as distinguished from Veda, for Atharvana spells. Unfortunately there is no Bhasya on this hymn), Thus Veda both in the Rigveda and the Atharvaveda, as also in the Satapatha Brāhmana, has not that restricted meaning which attaches to the word in the Chhandogya Upanishad viz; the Sanhitas of the four Vedas. The latest meaning of Veda includes the Brahmanas of the four Vedas with their Upanishads (मंत्रजाह्मणयोर्वेदनामधेयम) also and is explained in a verse quoted by Sayana in the beginning of his Bhashya on the Atharvaveda viz. प्रत्यक्षणानुमित्या वा यस्तुपायो न बुध्यते । एतं विदन्ति वेदेन तस्माद्वेदस्य वेदता ॥

APPENDIX.

I CHARAŅA-VYŪHA.

This work is said to be a Parisishta-Sutra (or an Appendix from among 18) composed by Kātyāyana. It begins with the sutra अथानश्ररण अहं ज्यारव्यास्याम: in the usual form. It first treats of the Rigveda and gives its Śākhās or schools as five viz:—Śākala, Bāshkala, Ās'valāyana Śānkhāyana and Mandukeya. The schools of Yajurveda are given as eighty-six; but these are not enumerated. The Charakas are said to be 12, Katha, Kapishthala, Svetās vatara and Maītrāyaniya being among them, some of these being subdivided into Upaśākhas. The Vājasaneyins are then mentioned with the extent of their Sanhitā and their Satapatha Brahmana which is said to be four times their Sanhitā. The Vājasanevins are sub-divided into 17 branches two of which are Madhyandina and Kanva. The Taitirīyakas are of two divisions viz. the Aukheyas and the Khāndikeyas, the latter again being sub-divided into five branches (1) Kāleta (2) Śātyāyanī, (3) Hairanyakeshī (4) Bhāradvājī and (5) Āpastambī. The extent of their Veda is 1800 Yajuh mantras, twice the same being Padapātha and three times Kramapātha. The eighty-six Śākhās mentioned cover both the Black and White Yajurvedas, The Kānva Sanhitā is said to contain 2086 Riks including Khila and Sukrīya while their Satapatha is said to contain 17 Kāndas of 6258 mantras in extent. Samaveda is said to have one thousand Sakhas. But Indra killed most because they recited on days prohibited. Two only remain namely Ranayaniyas and Kauthumas subdivided into 10 and 7 branches respectively. Their extent of study is 8000 Agneya, 400 Pavamana and 600

Aindra. The Atharvaveda is divided into ten branches, two of which are Paippalāda and Śaunaka and the extent of their Veda is 12000. These are divided into five Kalpas, Nakshatra, Vidhāna, Adhikāravidhi, Abhichāra and Śānti.

In the end the four Vedas are deified and described as four persons with different complexions, features &c, a thing which led to the construction of images representing the Vedas with different heights. The gotra of Rigveda is given as Atreya, of Yajurveda as Kāśyapa, of Sāmaveda as Bhāradvāja and of Atharvaveda as Vaikhānasa. These are undoubtedly imaginary gotras, as no reasons can, we think, be offered for this assignment. There are four Upavedas; Ayurveda attached to Rigveda. Dhanurveda to Yajurveda, Gandharva Veda to Samaveda and Arthasastra to Atharvayeda. The six well-known Vedāngas are also enumerated; as also 8 Upāngas viz. 1 Pratipada, 2 Anupada, 3 Chhandas, 4 Bhāshā, 5 Dharma, 6 Mīmānsā, 7 Nyāya and 8 Tarka. These clearly indicate that this work was composed after the Mimansa Śastra had arisen and therefore, belongs to about the fifth centry A.D., the ·age of Sabara Bhāshya or later still, of Kumārila.

The commentator on this Parisishta, out of the eighteen enumerated, mentions the provinces of India where particular Sākhās prevail. Among the Hirnyakesins are mentioned Ohīttapolas which shows this commentary to be quite recent, later than the 12th centry A. D. Some of these provinces are imaginary like Svetadvīpa, but many references are correct.

II REFERENCES TO THE VEDAS & THEIR SAKHAS IN THE MAHABHARATA.

In Śantiparva chap. 343, the following slokas occur in the Narayaniya Ākhyāna. एकविंशानिसाहस्रमृथ्वेदं मां प्रवक्षते । सहस्र-शास्त्रं यत्साम ये वे वेदविदो जनाः । गायन्त्यारण्यके विषा मद्गस्त्रास्तिऽपि दुर्लमाः ॥९८॥ अष्ठपञ्जाशतमदी च सन्तर्भिशतमित्युत ॥ यस्मिन्शास्त्रा यञ्जेवेदे सोहमाध्वर्यव ३ स्पृतः । पंचकल्पमथर्नाणं कृत्याभिः परिबृंहितम् । कल्पयन्ति ।हि मां विमा अधर्वाणविद्स्तथा । शाखाभेदाश्च ये केचित् याश्च शाखास्र गीतयः । स्वरवर्णसमुचाराः सर्वास्तान् विद्धि मत्कृतान् । यत्तद्धयशिरः पार्थं समुद्रेऽत्र वरप्रदम् । सोहमेवोत्तरे भागे क्रमाक्षरविभागवित् । वामादोशितमार्गेण मत्प्रसादान्महात्मना । पाञ्चालेन क्रमः प्राप्तस्तस्माद्भुतात्सनातनात् । बाभ्रव्यगोत्रः स वभी प्रथमं कमपारगः । कमं प्रणीय शिक्षां च प्रणयिता स गालवः ।

We have already said that twenty-one thousand here is a misreading for twenty-one Śākhās of Rīgveda, thousand Sākhās of Sāmaveda are as old as the Mahābhārata (cir. 250 B. C.), as also the Panchakalpas of Atharvaveda. Of the Yajurveda are mentioned 56 and 8 and 37 Śākhās the total coming to 101 instead of 86 of the Charanavvuha. Yajurveda was the most prevalent Veda and has even now many Śākhās. It must have been so, in Mahābhārata days, from the statement of Patanjali that Charakas are found in every village. These and other Śākhās were distinguished by differences of accents and pronunciations. The idea of Vishnu taking the form of Hayasiras or horse-headed and reciting the Vedas with their Kramas and different letters is interesting, as showing that the Vaishnavite Nārāyanīya Akhyana identifies its god with Vedic lore. Lastly Gālava alias Bābhravya (of that gotra), inhabitant of the Panchala country, is mentioned as enunciating the Kramapātha (presumably of all the Vedas), by the method shown by How and where Vamadeva has shown this Vamadeva. method has to be found out. If Vamadeva is a Vedic Risht, he can not be a contemporary of Galava.

In Santi. p. chap, 350, it is stated that Apantartamas, a son of Svyambhū, born from his speech, first divided the Vedas in tha time of Svayambhuva Manu. In the fourthage viz. Kali, Vyāsa will divide the Vedas-Vyāsa born of Parāsara from the family of Vasishtha. (अवान्तरतमा नाम सतः स्वायंध्रवः प्रशुः। तेन मिक्तास्ततो बेदा मनो: स्वायंध्रवान्तरे । तकात्वनेकवा वेदायं मेस्स्ते तपसान्तितः ॥ इच्छो युमे च सन्प्राप्ते इच्छावर्णी मान्द्रवित ॥). We have-

not come across any reference to Apantaratamas, a former double of Vyāsa or Krishna Dvaipāyana, in any Vedic literature, This is presumably a new idea and a new name promulgated by Sauti.

There is a mention of a Rahasya Veda composed by Arvāvasu (रहस्यवेदं कृतवान् सूर्यस्य द्विजसत्तमः । वन. 138, 18). The commentator states that the eight lettered mantra of Sūrya (धृणिरिति द्वे अक्षरे सूर्य इति त्रीणि आदित्य इति त्रीणि एतद्वेसावित्रस्याष्टाक्षर्पद्वं श्रियाभिषक्तमिति काटकज्ञाह्मणम्॥) is the Rahasyaveda of the Sun referred to. But the Kāthaka Brāhmana is included in the Sanhitā and we are not sure if this mantra is really to be found in the Kāthaka Sanhnitā published by Schraeder.

In Anusasana p. chap. 314, Śakalya is mentioned as Sūtrakrit. What Vedic Sūtra this is can not be known. Śakala Sanhitā is well-known and Śakalya's son Śakalya frequently mentioned in Pāṇini's grammar may have composed a Sūtra on grammar.

We have already stated in the note at the foot of page 153 that MBh. V 19 (5-8) mentions that Agniras was the author of the Atharvaveda and that the Veda was, therefore, known by the name of Atharvangirasah. This does not prove that the name Atharvaveda arose later than MBh.; for we find that name long before in the Chhāndogya. This is simply a reminiscence of the Gopatha story that Angiraswas Atharvan himself and composed the Atharvangirasa Veda. It must be ascertained if the Vaitāna Sūtra prescribes an oblation to Angiras and to him alone at sacrifices.

III PURUSHA-SÜKTA IN THE FOUR VEDAS.

The Purusha-Sūkta hymn X 90 of the Rigveda is taken, wholly or in part in all other Vedas. In Sāma-Veda, only the first five verses are taken in P. 6, 13 as verses 3 to 7. There are many changes in these five, the second halves of all except.

the fourth being transposed; and there are some changes in words also, such as अञ्चलानशने for साशानानशने. In the Black Yajurveda the whole sikta appears only in T. Aranyaka III as Anuvāka 12. All the sixteen verses are taken and two more in Trishtup are added before the last यज्ञेन यज्ञम &c. The fifteenth verse सप्तार्यासन परिथय: &c. is, however, given as There are no other changes except that तस्पादिराञseventh जायत is recited as तस्माद्विराङजायत. the Yajurvedins not pronouncing d as l. In the White Yajurveda, the sukta appears as chapter XXXI. All the sixteen verses of the Rigveda sukta are given and six more are added, two of which are the ones given by the Black Yajurveda (T. A.). The Rishi of the 16 verses is given as Nārāyana, a name given by all the Vedas; but these added verses are said to be by Uttara Nārāyana which is clearly not a Rishi-name but means the later Nārāyana werses. There are some few changes in words, one of which is that instead of मुखादिन्द्रश्चानिश्च प्राणाद्वायुरजायत we have श्रोत्राद्वायुश्च पाणश्च मखादन्तिरजायत. Indra is omitted here altogether. In the Atharvaveda, the sükta appears in Kanda XIX as hymn 6 with 16 verses as in the Rigveda, but the 16th verse is entirely There are many important transpositions and different. changes in words, the word in the very beginning being सहस्र बाहु: instead of सहस्रशीर्षा. And we have तं यहां पाइषा प्रीक्षन् instead of बहिंचि प्रोक्षत. It may finally be added that the verse बाह्मणोस्य मुख्यासीत् &c. appears in the two Yajurvedas and the Atharvaweda and hence belongs to the original sukta and is not an interpolation. The Samaveda gives only five verses and hence it naturally omits this verse along with eleven others.

IV ALPHABETICAL LISTS OF VEDIC RISHIS.

In a history of Sanskrit literature, it is, we think, necessary that lists of Rishis of the several Vedas should begiven, Rishis being the authors of complete hymns or individual verses. Moreover, as the Pravara system of the Indo-Aryans is based on these Rishis, such lists would be interesting. Lastly it would be worth while seeing which Rishis belong to which particular Veda or to all Vedas. We have, therefore, specially prepared such lists and give them here. It is possible that a few mistakes may have crept in here and there. The names are given according to the English Alphabet.

(1) RIGVEDIC RISHIS

The number of the Mandala is given in Roman figures, of suktas in English figures and of verses in the latter figures in brackets. This list is prepared from the Ajmer edition. It will be seen that most names are of real authors, a few only being imaginary such as gods or Pururavas and so on.

Abhīvarta A 174
Aditi Dākshāyaṇī X 72
Agastya I 165-191
Agastyasya Svasā (sister of Agastya) and mother of Bandhu &c. X 60 (6)
Aghamarshaṇa Mādhuchchhandasa X 190
Agnayo Dhishṇyāh Aiśvarāh IX 109
Agni IX 106 (10-14)
Agni Chākshusha IX 106 1-3
Agni Sauchīka X 51 (2, 4, 6, 8); 52; 53 (4-5)

Abhitapas Sauryya X 37

Agni Sauchīka Vaisvānara or Sapti Vājambhara X 79-80
Agni Pāvaka X 140
Agni Tāpasa X 141
Agni-Varuna-Somānām nihavah X 124
Agniyuta Sthaura or Agniyūpa Sthaura X 116
Aindra (dialogue between Indra and Vasukra) X 28
Ākrishtā Māshāh IX 86(1-10, 30-40)
Amahīyu IX 53-60
Ambarisha & Rījishvan IX 98
Amhomuk Vāmadevya X 126

Anānata Pāruchchhepi X 111 Andhīgu ŚyāvāśviIX101(1-3) Anga Aurava X 138 Anila Vātāyana X 168 Apālā Ātreyī VIII 91 Apratiratha Aindra X 103 Archananas Atreya V 63-64 Archan Hairanyastupa X 149 Aruna Vaitahavya X 91 Arbuda KādraveyaSarpa X94 Arishtanemi Tarkshya X 178 Asita Kāśyapa or Devala IX 5-24 Ashtaka Vaišvāmitra X 104 Asanga Plāyogi VIII 30-33 -Ashtādanshtra Vairūpa X 111 Atri V 27, 37-43; 76-77; 83-86; IX 86 (41-45) Atri Sānkhya X 143 Avasyu Aitreya V 31, 75 Avatsāra Kāshyapa &c. V 44 Avatsāra IX 53-60 Ayasya IX 44-46 X 67-68 Ayu Kanva VIII 52 Babhru Ātreya V 30 Bahuvrikta Ātreya V 71-72 Subandhu, Bandhu. Sruta-Viprabandu bandu and Gaupāyana or Laupayana V 24: X 57, 58, 59, 60 (1-5, 7-12)Barn or Sarvahari Aindra X96 Bharadvāja Bārhaspatya VI 1-30; 37-43; 53-74 Bharadvāja IX 67 1-3

Bharga Pragatha VIII 60-61 Bhikshu X 117 Bhishak Atharvana X 97 Bhuvana Aptya or Sādhana Bhauvana X 157 Bhrigu Vāruni or Jamadagni IX 65 Bhūtānša Kāšyapa X 106 Bindu or Pūtadaksha VIII 94 Bindu IX 30 Brahmātithi Kānva VIII 5 Brihanmati IX 39-40 Brihaddiya Atharvana X 120 Brihaduktha Vāmdevva X 54; 55;56 Brihaspati X 71 Brihaspati Brihaspati Laukya or Aditi Dākshāyaņī X 72 han Gavishthira Budha Atreyas V 1 Budha Saumya (X) 101; Chakshu Manaya IX 106 4-6 Chakshu Saurya X 158 Chitramahas Vāsishtha X 122 Damana Yamayana X 16 Devas X 51 (1, 3, 9, 7, 5) 53 (1-3, 6, 11,) Devala IX 5-24 Devamuni Airammada X 146 Devāpi Ārshtishena X 98 Devasravā Yāmayana X 17 Devashravas and Devavata (two Bhāratas) III 23 Devātitbi Kanva VIII 4 Dharuna Angirasa V15

Dhruva X 173 Dirghtamas Auchathya T 140-164 Divya or Dakshinā Prājā patyā \mathbf{X} 107 Drona X 142 (3-4) Dridhachyuta Agastya IX 25 Duvasyu Vandana X 100 Dvita Āptya IX 103 DvitaMriktavahasAtreyaV18 Dyumna Visyacharshani V 23 Ekadyū Naudhasa VIII 80 Evayāmaarut Ātreya V 87 Garga VI 47 Gaurivīti Śāktya V 29 Gaurivīti IX 108 (1-2); X 37;74 Gāthin Kauśika III 19-22 Gātu Ātreya V 32 Gavishthira Atreya V 1 Gaya Atreya V 9-10 Gaya Plāta X 63-64 Gharma Saurya X 181 (3) Ghaura Kānva VIII 1 (1, 2) Ghoshā Kākshīvatī X 39-40 Gopavana Atreya or Saptavadhri VIII 73; 74 and Goshükti Asvasbūkti Kanvas VIII 14-15 Gotama IX 31 Gotama Rāhugaņa 74-93. Gritsamada IX 86 (46-48) Gritsamada Angirasa Saunahotra II 1-3, 8-27, 30-43 Harimanta IX 72

Haryata Prāgātha VIII 72 Havirdhāna Āngi X 11-12 Hiranyagarbha Prājāpatya X 121 Hiranyastupa IX 4, 69 Angirasa I 31-55 Idhmavāha Dārdhachyuta TX 26 Indra Mushkayan X 38 Indra Vaikuntha X 48-50 Indrapramati Vāsishtha IX 97(4-6)Indrānī X 145 Indramātarah X 153 Irimbithi Kānva VIII 16-18 Isha Atreva V 7-8 Ita Bhargava X 171 Jamadagni IX 62, 65, X 167 Jamadagni Bhargava VIII101 Jamadagni or Rāma X 110 Jaratkarna Airāvata Sarpa $\mathbf{X}76$ Jaritā X 142 (1-2) Jaya X 180 Jetri Mādhuchchhandasa I 11 Juhū Brahmajāyā or Urdhvanābhā Brāhma X 109 Kakshīvat IX 74 I 116-8, 122, 126, (1-5), Dairghtamasa 119, 123-5 Ausija 120-1 Kali Prāgātha VIII 66 Kapota Nairrita X 165 Kanya IX 94 Ghaura I 34-36

Karnaśrut Väsisthas IX 97

(22-24)

Kasyapa IX 64 91-92 4-113 Kāsvapī Šikhandinīs (two Apsarasas) IX 104 Kata Vaišvāmitra III 18 Kavi Bhargava IX 47-49 Kavi IX 75-79 Kavasha Ailusha X 30-34 Kautsa Sumitra or Durmitra X 105Ketu Agneya X 156 Kriśa Kānva VIII 55 Krishna VIII 85; X 42-44 or Visvaka Kārshai VIII 86 Krishna Dyumnika VIII 87 Kritayasah IX 108 (10-11) Kritnu Bhārgava VIII 79 Kulmalabarhisha Śailushi X 126 Kumāra Ātreya V 2 Kumāra Yāmāyana X 135 Kūrma Gārtsamada II 28-9 Kurusuti Kānva VIII 76-8 Kusidī Kānva VIII 81-83 Kusika Saubhara X 127 Kutsa Āngirasa I 94-115 Kutsa IX 97 (45-48) Laba Aindra X 119 Lusha Dhanaka X 35-36

Madhuchchhandas I 1-10 IX 1 Māndhāṭri Yauvanāśva X134 Manu Āpsava IX 106 (7-9) Manu SānvaraṇaI X101(10-2) Manu Vaivasvata VIII 27-31 Manyu Tāpasa X 83-84

Manyu Vāsishtha IX97(10-2) Mātarisvan Kānva VIII 54 Mathita Yamayana X 19 Matsya Sāmada, or Mānya Maitravaruni, or fish caught in a net VIII 67 Medhātithi (Kānva) I 12-23 VIII 1 (3-29) 2,3,32,33 IX 2 Medhvātithi VIII 3 IX 41-3 Medhya Kanya VIII53, 57, 58 Mridika Vāsishtha IX 97 (25-27); X 150Mudgala Bhārmyasva X 102 Munayo Vātarasanāh X 136 Murdhanyān Angirasa Vāmadevva X 88 Nābhāka Kānva VIII 39-42 Nabhānedishtha Mānava X 61, 62 Nabha Prabhedana Vairūpa X 112 Nahusha Manava IX 101(7-9) Nara VI 35-36 Nārada Kānva VIII 13 Nārāyana X 90 Nema Bhargava VIII 100 (1-3, 6-12)Nidhruvi Kāsyapa IX 63 Nīpātithi Kāņva VIII 34 Nodhā Gautama I 58-64 Nodhā VIII 88; IX 93 Nrimedha VIII 98 99 IX27 9 Nrimedha and Purumedha VIII 89-90

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(2) SAMAVEDA RISHIS

The following list has also been prepared from the Ajmer edition. These Rishis are in general real persons like the Rishis of the Rigveda except some like Agni Tāpasa who is very likely god Agni. Only seven verses are assigned no Rishis viz. 8, 1 (14), 8, 2 (19), 9, 1 (2) and 9, 2 (3, 4, 7, 10). These are called Etatsāman or Itisāman. Most of the verses can be traced to the Rigveda and their Rishis are mostly the same as in the Rigveda. On comparing these two lists, one may say that no name is found here which is not in the Rigveda list. The greater number of Sāman verses belong to Vasishtha and next follow Viśvāmitra, Medhātithi, Vāmadeva and Śunahśepa as great Sāman chanters.

Abhīpāda Udala P 3, 4 (9)
Agastya U 6, 2 (20)
Agni U 3 (118) Pāvaka U 3,
1 (20)
Agni Chākshuśa 6, 8 (1, 7, 11)
Vaiśvānara Pāvaka Bārhaspatya 7, 2 (14), 9, 2 (1) V
1 (20) Tāpasa P 1, 10 (1)
Ākrishta-Bhāshah U 3, 1 (1)
4, 1 (1)

Amahīyu P 5, 9 (1, 4), 5, 10 (4, 8) 6, 1 (1, 8, 9), 6, 2 (14) 6, 10 (48) Angirasa U 1, 1 (8, 10), 1, 2 (17, 18) 2, 1 (2, 5, 15) 3, 1 (2) 4, 1 (13) Dhishnya 4, 2 (12), 5, 1 (17), 5, 2 (19) 6, 1 (8)

Ambarīsha P 6, 6 (6,7) and Rijišvā U 1, 2 (22, 3) 5, 1 (16), 5, 2 (18), 8, 2 (8)

-AnānataPāruchehhepiP5,8(7) U 7, 3 (10).

Andhigava U 1, 1 (19)

Andhigu Śyāvāśvī P 6, 6 (1)

Anhomuk VāmadevyaP5,4(8)

Aprathiratha Aindra V 9, 3 (1-4, 5)

Aptya Trita 4, 8 (9)

ArishtanemiTārkshyaP4,5(1)

Aruna Vaitahavya U 3, 2 (7)

Asita P 1, 10 (3) (Devala), Kāsyapa 5, 9 (9, 10), 5, 10 (9, 10), 6, 1 (3) 6, 2 (10) U

1, 1 (1) 1, 2 (17, 18) 3, 1 (16), 3, 2 (3, 4, 13), 4. 1

(17), 4, 2 (2, 3), 5, 1 (24), 5, 2 (3), 6, 3 (3)

Asvinau Vaivasvatau P4, 2(3) Atreya P 5, 7 (9)

Atri P 4, 6 (4), 4, 8 (6), 6, 3 (1-12), Bhauma 6, 7 (11), U 4, 2 (16), 7, 3 (10), 8, 3 (15)

Atkila P 1, 6 (6)

Atman P 6, 10 (9)

Avasyu P 5, 3 (10) Atreya P 8, 3 (12)

Avatsara P 6, 2 (4) U 1, 2 (16), 3, 2 (5), 4, 1 (5)8, 3 (2, 18), 9, 2 (5, 6)

Ayāsya Angirasa P 6, 2 (13) Āyu Kānva U 8, 2 (7)

Ayunkshvāhi P 1, 2 (1)

Bandhu, Viprabandhu P 5, 7 (3, 4) Gaupāyana or Laupayana U 4, 1 (21)

Barhaspatya Atharvāgni U 3, 1 (20)

Bharadvāja P 1, 1 (1, 2, 4, 7, 9), 1, 3 (2, 5, 9), 1, 9 (3, 4) 2, 1 (9), 2, 6 (4), 3, 1 (8, 9) 3, 5 (2), 3, 7 (10) 3, 8 (4), 3, 9 (9), 3, 10 (4), 4, 5 (2), 4, 7 (1), 4, 8 (6), 4, 9 (9), 5, 1 (2), 5, 7 (8), 6, 3 (1, 2), Vasu 6, 7 (9), 6, 10 (1), Bārhaspatya 6, I2 (8, 9), U 1, 1 (4) 1, 2 (20 Seven Rishis), 2, 2 (8), 3, 2 (10), 4, 2 (5, 8) 5, 2 (16), 6, 2 (2, 7), 6, 3 (2, 9, 16), 7, 2 (3), 7, 3 (11) 8, 2 (18)

Bhāradvāja P 1, 4 (5), 1, 7 (5, 6), 1, 8 (3), 2, 4 (3)

Bharga (Prāgātha) P 1, 4 (2), 1, 5 (2), 3, 5 (8), 3, 7 (1) 3, 9 (2), 3, 10 (8) U 5, 1 (14) 5, 2 (15), 6, 3 (7), 7, 2 (4) 7, 3 (3, 4)

Bhargahuti P 1, 10 (4)

Bhauvana Attha P 5, 7 (6)

Bhrigu Vāruṇi P 5, 9 (3), 5, 10 (5), 6, 2 (7) U 2, 1 (4,10), 2, 2 (2), 3, 1 (5), 3, 2 (11), 4, 2 (4, 13)

Bhuvana Āptya U 4, 1 (23)

Gayatri P 1, 9 (2)

Bindu P 2, 6 (5), 2, 8 (10), 9, 1 (8) Brahmātithi P 3, 3 (6) Brihaddiva Atharvana U 6, 3 (19) Brihaduktha P 1, 7 (3), 4, 4 (3), 9, 1 (7)Brihanmati Angirasa P 6, 1 (2) U 3, 1 (4, 12) Brihaspati P 4, 3 (9) Budha and Gavishthira P 1,8 (1) Atreya U 8, 3 (13) Chakshu Mānava P 6, 8 (2) Chita U 7, 2 (5) Dadhyan Atharvana P 2, 9 (3) Devala U 3, 1, (16), 3, 2 (3, 4, 13), 4, 1 (17), 4, 2 (2, 3), 5, 1 (2, 4), 5, 2 (3), 6, 3 (3) Devātithi Kāņva P 3, 6 (10), 3, 4 (5, 7), 4, 2 (6), U 5, 1 **(13)**, 7, 3 (16, 17) 8, 3 (4) Dhridhachyuta Agastya P 5, 9 (8), U 3, 1 (10) Dirghtamas P 2, 1 (1) Auchathya U 8, 3 (17), 9, 1 (4) Dvita Aptya P 6, 8 (8, 12) Dyutāna P 4, 4(1, 2, 4) Evayamarut P 5, 8 (6) Gatu P 4, 3 (3) Gaurāngirasa P 5, 8 (2) Gauriviti P 4, 3 (7), 4, 4 (9), Śāktya 6, 9 (1) Gavishthira P1,8(1) U 8,3(13)

Godhā P 2, 9 (2) Gopavana P 1, 3(9), 1, 9 $(7,9)_r$ Atreya U 7, 2 (12) Goshūkti and Aśvaśakti P 2, 3(7, 8), 3(2(8), 4, 10(2, 3))Kānvāyana U 2, 2 (18), 8, 1 (9, 11), 9, 2 (9) Gotama (Gautama) P 2, 1 (3) 2, 6 (3), 2, 9 (5), 3, 3 (5), 3, 6 (5) Gautama 4, 5, (10). 4, 6 (3, 6), 4, 10 (9), 5, 3 (1-8), 5, 4 (5, 6), 6, 3 (1-12)6, 12 (2, 3) Rāhugana U3,1 (8, 2), 3, 2, (14, 15, 23), 5, 2(22), 6, 2, 7, 1 (14), 7, 2 (1, 11), 7, 3 (12), 8, 3 (5, 8, ...)9, 10), 9, 3 (92) Grihapati & Yavishtha, sons of Sahas U 3,1(20), 7,2(14) Gritsamada P 3, 1 (7), 5, 8 (1, 10), 6, 10 (5), 6, 11 (6),U 3, 1(7), 6, 3 (20) Haryata Pragatha P 2, 3 (3) U 6, 3 (18), 7, 3 (16, 17) Hiranyastūpa P 6, 12 (11), U 4, 1 (4), 6, 1 (9) Indramātarah Deva-Jāmayah. P 2, 3 (6), 2, 9 (1) Indrapramati Vāsishtha P 6, 5 (3) Irimbithi P 2, 1 (6) Irimitha P 2, 5 (10), 2, 7 (5) 2, 10 (7) U 1, 1 (6), 1, 2 (5)

Arimithi P 3, 9 (3), 5, 1 (7) -Jaya Aindra U 9, 3 (9) Jamadagni P 3, 3 (7), 3, 7 (3) 3, 9 (4), 5, 9 (7), 6, 2 (12), 6, 3 (17, 2), U 1, 1 (5), 2, 1 (1, 4, 10), 2, 2 (1-2), 3, 2(6, 16), 3, 2 (11), 4, 1 (6), 4, 2 (4, 13) Bhargava 9, 1 (9), 9, 1 (17)Jetā Māshuchhandasa P 4, 6 (2), 4, 7 (4), U 2, 1 (19), 5, 1 (20) Kali Pragatha P 3, 5 (5) 3, 8 (10), U 1, 1 (14), 8, 2 (13) Kāmadeva P 1, 3 (10) Kanva P 1, 3 (11), 1, 5 (10), 1, 6 (2, 3, 5), 2,5 (1Ghaura) 2, 10(6), 6, 5(7) Kasyapa P 1, 9 (10), 5, 9 (6), 5, 10 (6), Mārīcha 6, 2 (8,9) 6, 3 (1-12), 6, 5 (11) U 1, 1 (2), 2, 1 (3), 2, 2 (4), 3, 2(2) 4, 1 (2, 11) Kavasha Ailūsha P 5, 7 (7) Kavi Medhāvi P 6, 10 (1), Kāvi 6, 2 (11), Bhārgava 6, 7 (1-3, 5) U 2, 2 (30), 5, 1 (12), 6, 3 (1) Kautsa Durmitra P 3, 4 (6) Ketu Agneya U 7, 1 (15) Khigana P 6, 7 (6) Krishna Angirasa P 4, 9 (6) Kritayasas Angirasa P 6, 9 (4), U 3, 2 (17)

Kurusuti Kāņva U 3, 2 (9) Kusīda P 2, 7 (8), 2, 8 (3 Kānva), U 1,2(6) Kusīdi Kāņva P 2, 5 (4) Kutsa P 1, 7 (4), 4, 9 (11), Angirasa 6, 5 (9), 6, 14 (3) U 4, 1 (7, 21), 6, 2 (18), 8, 3(14)Madhuchhandas P 1, 2 (4) 2, 4 (5, 6), 2, 7 (6, 10), 2, 8(2) 2, 9 (6), 2, 10 (5), 3, 1 (5), 3, 2 (2), 4, 6 (1), 4, 5 (4), 5, 9 (2), Vaisvamitra 6, 11 (3, 4), 6, 2 (6), 11 (3, 4), 6,12 (6), U 1, 2 (10), 2, 1 (8), 2, 2 (6, 7), 4, 1 (15), 4, 2 (7), 5, 2 (2, 3), 6, 3 (14), 3, 1 (2) Māndhātri Yauvanāsva U 4, 1 (16) Manu P 1, 5 (4) Apsava 6, 8 (6), 5, 2 (17), Sānovarana 6, 6 (4), U 42 (20) Vaivasta P 1, 0 (10) Madasyu Vāsishtha P 6, 5 (8) U 3, 2 (20) Medhātithi Āngirasa P 2, 3(9) Medhātithi P1, 1(3), 1, 2(6) 1, 3 (12), 1, 5 (8), 2, 5 (5), 2, 6 (2), 2, 7 (3), 2, 8 (7), 3, 3 (4, 9), 3, 4 (1, 7, 8) U 3, 5 (7), 3, 6 (2, 3), 3, 7 (4, 9), 3, 8 (9) with Medhyā P 3, 10 (9, 10), 4, 1 (3, 5), 4, 2 (5),4, 9 (10), U 2, 1 (6, 7), 2, 2

(5), 4, 1 (3), 6, 1 (1, 6), 6,2 (5, 16), 6, 3 (11), 7, 3 (1, 8, 18), 8, 2 (1, 5, 15), 9, 1(15) Medhyātithi P 1, 5 (8), 3, 6 (2,3), 3, 6, (7,8,9), 3, 8, (9)3,10 (7;, 4,1 (3, 9), 6, 1 (6),6, 2 (1), U 1,2(3),2,2(12),3,1(3) Mridika Väsishtha P 6, 5 (5) Mriktavāhan Dvita P 1, 9 (5) Nahusha Mānava U 2, 1 (16) Nakula P 4, 3 (9), 5, 8 (8) Nārada P 4, 10 (1), 6, 8 (3, 4, 9, 12) U 1, 2 (12), 4, 1 (19) 4, 2 (11), 7, 3 (20) Nārāyana P 6, 13 (3-7) Nidhruvi Kāsyapa P 5, 10 (7), 6, 1 (6, 7), 6, 2 (5, 6), 5, 1 (8, 15) Kānva 8, 2 (16) Nīpatithi Kānva P 4, 6 (7), 9,1 (16) Nodhas P 3, 5 (4), 4, 1 (4), 4, 2 (10) Gautama 6,5 (6) U 6 2 (15) Kākshivata U1,1(13) Nrimedha & Purumedha P 3, 6 (6), 3, 7 (5, 6), 3, 8 (7), 6, 11 (7), U 6, 2 (12, 19), 7, 1(2) Nrimedha P 3, 8 (5), 3, 10 (1) 4, 1 (10), 4, 2 (9), 4, 10 (8) 5, 1 (3), 5, 2 (7, 8), U 1, 1 (23), 2, 1 (14), 3, 2 (22), 4, 2 (15), 5, 1 (19) 5, 2 (5, 6), 5, 2 (14) 8, 1 (8), 9, 1 (1)

Parasara Śāktya P 6, 4 (3, 7) 6, 5 (2, 10), U 2, 2 (10), 5x 2 (1), 6, 1 (4) Parutchhepa P 3, 10 (5), 5, 8 (3, 5, 9), 9, 1 (18)Parvata P 4, 10 (4), 5, 1 (4), 6, 8 (3, 4, 9, 10), U 4, 1 (19), 4, 2(1), 7, 3(20)Pavitra Angiras P 6, 7 (12) 6, 11 (2), U 2, 2 (16),5,2(8) Pāyu P 1, 8 (8), 1, 10 (8), U 9, 3(6)Prabhūvasu P 6, 1 (4) Prāgātha Kānva P 2, 5 (8), 3, 1 (1), 3, 5 (10), 4, 7 (4), 5, 1 (1), 6, 1 (3) Ghaura or Kānva 6, 1 (5) Prajāpati U 1, 2 (22-2) 6,2(3) Prajapati Vāsya P 6, 6 (9) Praskanva P 1, 4 (6), 1, 5 (6) 1, 10 (6), 2, 9 (4), 3, 3 (8), 4, 2 (4), 4, 8 (8), 6, 4 (8), 6, 5 (12), Kānva6,14 (7-14) U 2, 1 (13), 8, 3 (6), 9,1(6) Pratardana Daivodāsi P 6,4(5, 10),6,5 (1),U 3,1(19)5,1(1) Pratha P 6, 11 (5) Prayoga P 1, 2 (3, 8, 9), 1, 3 (1), 2, 2 (1) Bhārgava U 3, 1 (20), 7, 2 (14) Prishnis Ajas U 2, 1 (17-3) Prithu Vainya P 4, 3 (4) Priyamedha Kānva P 2,3(10) 2, 7 (3), 2, 8 (7), 2, 4 (3, 5)

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(2a) LSIST OF DEVATAS OF SAMAVEDA.

As mentioned on page 118, we give below a list of deities praised in the Sāmaveda prepared from the Ajmer edition. It will be found that Agni, Indra and Pavamān Soma are the three most important deities in this Veda, only a few verses being addressed to others. Pindicates Pūrvārchika or the first collection of verses and U the Uttārarchika or later collection. The Roman figure indicates the chapter and the first English figure next given indicates the hymn in it, while the third figure given in brackets showsthe particular verse in that hymn,' indicates second half and "third half.

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Āpah U IX' 10 Asvins P IV 1 (2-3) V3 (10) U I' 15, VIII'' 7, 9, 12, 15, 17, IX 6

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8, 10) 8 (1, 3, 4, 10) VI 8, 10 (1-3) 11 (1, 3, 4, 7) 12 (11) 13(9,11) U 1(6,11,13, 14, 22, 23,) I' 1-12, II 8, 12-14, 18, 19 II' 11-13, 18, 19, III 8, 13-15, 21, III' 9, 14, 15, 22, 23 IV 9, 14, 16, IV' 7, 10, 15, 16, V 10, 13, 14, 19, 20, V' 10, 14, 15, 21-23, VI 3, 5, 6, VI' 4, 5, 9, 12, 14, VI" 2, 4, 6, 9, 14, 19, 20, VII 1, 2, 5, 8, VII" 1, 3, 4, 7, 8, 15-19 VIII 2, 8-11, 13, VIII' 1, 2, 4, 6, 7, 9, 10, 13, 15, VIII" 3-5. IX 7, 10, 16, IX' 9, IX" 1, 3, 45, 7, 9(1).

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(3) WHITE YAJURVEDA RISHIS.

The Rishis of this Veda are given in this list. There are no Rishis for the Black Yajurveda which consists mostly of prose sacrificial formulas; but this Veda consists solely of Riks or verses and their authors or Rishis are given from its Anukramani. These are mostly real persons and many of them are the same as those in the Rigveda, though the verses may be different. There are several new names such as Yājnavalkya, Śākalya and so on; but as this Veda is later than the Rigveda, new names are naturally to be expected. The Roman figures indicate the chapters which always consist of one hymn. The English figures indicate the number of Riks or verses in the chapter.

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(4) ATHARVAVEDA RISHIS.

This Index was made by Whitney, and was carefully revised by Dr. Ryder, and again by Charles Rockwell Lanman (1905):—We take it here with due acknowledgment.

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Brhaddiva Atharvan; also Sindhudvipa Atharvakriti Atharvan Vîtahavya VII 36-7 Atharvangiras IV 8; VI 72, 94, 101, 123-132 **VII** 74, 115-118, XIX 3-4, 5 (?) cf Angiras Atharvāchārya VIII 10; cf XII 5 (Kasyapa) Apratiratha XIX 13 Atharvana of Bhrigu Atharuana Babhrupingala VI 14 Bādarāyani IV 37-38 VII 59, 109 Brihasehukan VI 54 cf Sakra Brihaddiva Atharvan V 1-3, Brihaspati X 6 Brihman V 17, 19, 22, 24, 26, 31-32 II 15-17, 24, 13, III 12, 14, 23, 28, 31 IV 5, 16, 21, 33, 39, 9-10 V 9-10, 20-21, 25-27 VI 26, 41, 54-55, 71, 114-115 VII 19-22, 24, 32, 33, 53 54-1, 60, 66-67, 103, 104 111; VIII 1-2; IX 4, 6-7, 9-10; **X** 5, 37-41 **XI** 1, 5 XIII 1-4 i. e, the whole

book XIX 1, 9-12, 21, 28-30, 36, 40-43, 51-52, 58-71 Brahman, Bhrigvangirasa III 11 Brahmaskanda IV 31-32 Bhaga VI 82 Bharadvāja 11, 12; Bharadvāja Gopatha XIX 49 Bhāgali VI 52 Bhārgava 113-114 Bhargava Vaidarbhi X 1, 4 Bhrigh III 13, 24-25, IV 9, 14 VI 27-29, 122-123 VII 15-17, 54-55, 84, 107-108, 110 IX 5 XII 2 XIX 31-33, 44-45 Bhrigu Atharvana II 5 Bhrigvangīras I 12-14, 25; II 5-10 III 7 IV 11 V 14-22 VI 10, 11-13, 91, 95, 96, 127 VII 30-31, VIII 8 IX3,8 XI10 X 27,39 Bhrigvangiras Brahman XIX 72 Angiras with Brahman Chatana I 7-8, 16, 28 II 14, 18, 25 IV 36 V 29 VI 32, 1-2, 34 VII 3-4 Dravinodas I 18 Dhruvhana VI 63 Garutman IV 6-7 V 13 VI 12, 100 VII 58 X 4 Gārgya VI 49 XIX 7, 8 Gopatha XIX 25, 47-48, 50

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Sindhudvīpa Atharvākriti I
6 cf Atharvan
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Vihavya X 5,42-50 Atharvan Vena II 1 IV 1-2 Śintāti I 33 IV 13 VI 10, 19, 21-24, 51, 56-57, 93, 107 VII 68-69 XI 6

Yama VII 23, 64, 100-1 XII 3 XVI 5-7, 8-9 (?) XIX 56-7 Yama with Angirasa Prācchasa

V. ANOTHER ANCIENT ENUMERATION OF THE SAKHAS OF THE FOUR VEDAS.

We came across this enumeration recently in the Mukti-kopanishad and we proceed to give it here in this Appendix. This Upanishad may be dated about 1000 A.D. as it evidently is later than Sankara. ऋग्वेदस्य तु शाखाः स्युरेकविंशति-संख्यकाः। नवाधिकशतं शाखा यजुपे। मास्तात्मजा ॥१२॥ सहस्रसंख्यया शाखा काता साम्रां परंतप । अथर्वणस्य शाखाः स्युः पञ्चाशद्भेदनो हरे ॥१३॥

Rigveda still has 21 Śākhās and Samaveda the traditional one thousand. But Yajurveda has now 109 and Atharvaveda has 50. Instead of these, Churana-Vyuha gives 86 for Yajurveda and 10 for Atharvaveda. The Mahābhārata of 250 B. C. gives the same number for Rigeda and for Śāmaveda; but it gives (56+8+37) 10' for Yajurveda and no Śākās for Atharvaveda. The increase in the Śākhās of these two Vedas is not surprizing as these Vedas are not as stereotyped as the other two and as their adherents are more numerous and diffused.

VI SUMERIANS AND INDO-ARYANS.

A Prof. L. A. Waddell in his recent book "Indo-Sumerian Seals Deciphered" holds that the old Sumerians of Mesopotamia (about 4000-3000 B. C.) were Vedic Aryans and that from the seals and signets found at Harappa in Lower Panjab and Mohenjo-Daro in Sind which he has deciphered, there was unquestionably a settlement by sea of these Sumerian or Vedic Aryan people in Sind, at so early a date as 3100 B. C. He further holds that "The same Aryan-Sumerian race eventually came in greater force overland through Persia from Upper Mesopotamia and Asia Minor and making their headquarters in the Gangetic valley, annexed India as the 'so called Aryan invasion of India,' presumably about 700 B. C." (p. 5.) This theory is so extravagant and so directly opposed to the theory of an Aryan Invasion coming into and colonising the Panjab from Central Asia about 4000 B. C. according to Tilak or 1400 B. C. according to most European scholars, and so strongly conflicts with the date which we have assigned to the Rigveda, that it is necessary to examine it critically in this appendix.

One is, at the outset, bewildered by the great number of Sumerian names treated by Prof. Waddell as equivalents of Vedic names. The equation, though ingenious, is a mere fancy prompted by the preconceived notion that the Sumerians were Vedic Aryans. Though similarity of sound may be looked upon as showing identity of persons or things, yet it can only be treated as a suggestion and not a proved fact; and where numerous facts go against such identification it has to be rejected. Thus in the very first chapter, we have Maruts of the Rigveda identified with Amorites and Krivis with Syrio-Phoenicians. Two Rig-

veda hymns are quoted in this connection viz. R. V. 53(9) and R. V.III 20 (24). Now in the first hymn addressed to Maruts, they are plainly looked upon as gods (winds) dwelling in the sky and heaven, (आयात मरुतो दिव आन्तरिक्षादमादन do 8) and as bringing rain (वि पर्जन्यं सजन्ति do 6). Moreover verse 9 itself speaks of the upper course of the Indus and not its lower course confronting Sind. We have already stated that the Indo-Aryans lived in the Gandhara country on the upper course of the Indus and the Eastern Panjab along the Himalayas and not in the hot western plains about Multan or of Sind. The rivers mentioned in this verse (9) are Rasā, Anitabhā, Kubhā and Kramu, along with the Indus, all western tributaries in its upper course. The poet asks the Maruts not to be stopped by these rivers, nor by the Indus (upper course), but come into the Panjab (Eastern part) and bring showers. The Maruts are no doubt described as human beings, the Vedic poets like poets in other religions, naturally investing their gods with human attributes. Maruts who succour the Krivis and give them victory, bring balms from the Indus and the Asikni and the mountains (VIII 20, 24), 'They are clothed in robes of wool' (p. 25) because the Indo-Aryans were themselves clothed in woolen garments, living as they did in the cold climes of Gaudhara and Eastern Panjab. The Sumerians' also being clad in wool can not, therefore, be made an argument to prove that the Maruts were Amorites or that the Sumerians were Vedic Aryans. These Rigvedic poets speak only of the Kubhā and the Indus and the Asikni and the seas, together with the mountains; had they come so late as 700 B.C. in the supposed second invasion from Mesopotamia via Persia, they would have spoken of many more places and rivers of those countries.

Prof. Waddell has no doubt brought to the identification of names an extensive knowledge of words in the various Aryan and Semitic languages; but his identifications seem to be very doubtful though ingenious. Thus 'Bhārata' is shown as eventually the origin of 'Britain'. It is not necessary for us to enter into all these identifications. But we must note the following with which we are immediately concerned and which ensue from Prof. Waddell's readings of the script on the seals and signets or amulets.

Harappa and Mohenjo-Daro were, it may be accepted, colonies of Sumerians established so carly as 3100 B. C.; but it can scarcely be believed that Sind or Edin was a tributary kingdom of the Sumerian king Uruas, the same as Uru-Nīna of Lagash and that Uruas is Haryasva and A-Madgal is Mudgala of the Indian Purānas; or that Pānchāla is Phœnician. Whether the seals found at Harappa are rightly read as Uruas &c. we need not and cannot discuss. It is a question for Assyriologists who mostly differ from Prof. Waddell, as stated by himself at p. 150. But we may say that when he equates Uruas with Harvasva, he makes a far-fetched guess. a guess prompted by his preconceived notion that Sumerian. kings were the same as mentioned in the Purana lists. Further does Prof. Waddell hold that these kings mentioned in the Puranas never ruled in India, but ruled in Mesopotamia, from whence their names were taken into India by the second invasion of the Sumerians which took place about 700 B. C.!!! It may be pointed out further that Panchala is not a Rigvedic name, but a name first mentioned in the Brāhmaņas, nor is Haryasva, who, in the Rigveda, is Indra himself. Puranic genealogies are not as reliable for this period as the names mentioned in the Rigveda itself, which is contemporary evidence for kings and peoples of about 3100 B.C.

In equating A-Madgal with Mudgala a Bharmyaśva, reference is made to Rigvedic hymn X 102 from which an interesting story is given at page 38: "Mudgala owned vast herds of well-pastured kine to the number of a hundred These cattle were raided by aborigines in his absence and only one bull was left behind. Mudgala harnessed this bull to his chariot and yoked on the other side for balance a stone mace (drughana). His wife acted as charioteer and Mudgala touched the bull with the sacred stone mace of Indra. The bull flew along so swiftly that Mudgala overtook the robbers and single-handed routed them and recovered his cattle". In a seal found at Harappa, the objects figured which Assyriologists could not interpret, show this story according to Prof. Waddell. "Mudgala is figured pointing to the two stone maces and beside them is the chariot—pole from which depend the double harness yokes described in the Vedic hymn with their curved yoking-pins at their loose end" This Vedic hymn is no doubt very interesting and its identification with the scene depicted on the seal is very ingenious. But we have to believe that this Vedic Aryan Mudgala lived in Sind with his one lakh of cows, that when the colony was destroyed, the miracle story went to Messopotamia and remained there for two thousand years and came to India with the second invasion of the Sumerian Aryans via Persia. It is not proved, nor is it even suggested, that the Sumerian settlement advanced into Eastern Panjab. It was killed in Sind about 2700 B. C. and the story of Mudgala and his miracle was related in a Rigvedic hymn in Sanskrit about 700 B. C. The Sumerians when they came to India changed their language entirely; for there is no similarity between the Vedic language and the Sumerian. Lastly the figure of the man on the seal need not be that of Mudgala but may be of any cart-driver o

old times using stone maces. Indeed, even the name A-Madgala is read by all Assyriologists as Akurgal, as stated by Prof. Waddell himself (at page 32 al:o). The reading of Bargu as Bhṛigu is also questionable and Mudgala is not of the Bhṛigu gotra according to the Indian genealogies.

It is not necessary to discuss every subsequent identification in detail. Their number is great and includes Kanva (Kanva), Barama (Brahmin), 2 Usij (slave girl) mother of Asiaś (Auśija) Kakshivan "the far-famed merchant (R. I 112, 11) who, a resident on the Indus, praised the bounty of his patron king Svanaya son of Bhavya (R I 112, 11 &c.), 3 Taps minister of Saguna of Agda (Indian Daxa of Saguni of Ayodhya), Sargon I of Agade (Sagara of Ayodhya), 4 Gudia (Gadhi), 5 Jama-Dagui (Duhgin) 6 Paraśu-Rāma (There is no reference to Paraśu-Rāma in the Rigveda. The hymn ascribed to Bhargava or Rama viz. R. X 110 does not men'ion human sacrifices as supposed by Prof. Waddell p. 60) or Burassin, 7 Gal-HA Bargu (Galava Bhrigu), 8 Uggu the Kad (Vedic Ucchchhai king of Kuru-Panchālas or Syrio-Phenicians) and 9 Pies or fish (the fish Sun-god) which is the Sumerian origin of Vish in Vishnu as also of the English fish and the Latin Piscis, b, p, f, v being freely interchangable in the Aryan languages" (p. 84). As mentioned before, Puranic stories are not reliable for this period; and we may point out that Sagara is not mentioned in the Rigveda nor Ayodhyā (Sagara occurs once only and means the sky in R. X 89, 4); nor the legend of Parasurama destroying Haryasva or the Kshatriyas. It is, therefore, improbable that these names are really old and it can not be believed that these names first arose in the Sumerian colony in Sind about 3000 B. C. and thence went into Mesopotamia and came back to India about 700 B. C.

The name Edin of the country of Sind has not, however, been equated to any Sanskrit name (the only name suggested Udyāna being that of a country on the Swat a tributary of the upper Indus. Mohenjo-Daro may be the place where a Sumerian colony was originally established in Edin; but Daro is not suggestive of any Sanskrit name though it may be Sumerian—Daru or sea. "As to Mohenjo in view of the prominence given to the buffalo on the seals of Edin, it may be derived from Mahisha, a word derived from the Sumerian Ma-a-su or cattle, still current as Mains" (p. 111). This is perhaps the most curious guess; but it is true, that the this part of the country is the home of buffaloes, a fact on which we will presently comment.

Mr. Daji Nagesh Apte of Baroda, in his Marathi pampulet recently published and entitled "Indian and Sumerian Civilizations," without expressly accepting the readings of the scripts on the seals and signets &c. found at Harappa and Mohenjo-Daro, proposed by Prof. Waddell, properly rejects his theory of two invasions of India by the Sumerians, as also his view that Vedic civilization is derived from the Sumerian. But he suggests that the Sumerians and the Vedic Aryans lived together in the Arctic home of the Aryans and issuing from there and dividing into two branches, went into Mesopotamia and the Panjab respectively. He thus believes that the Sumerians and the Aryans were one people and adduces proof by showing how some Sumerian and Vedic myths are identical. Curiously enough, he does not admit that the finds at Mohenjo-Daro and Harappa are Sumerian in origin, a fact which, we think, one can scarcely deny from the script on the seals &c found there. They clearly are the remains of Sumerian settlements from Mesopotamia. But according to our view the Sumerian civilization is not the same as the Indo-Aryan, nor are the two peoples branches of the same Aryan stock. How the arguments and myths adduced by Mr. Apte are insufficient to prove identity of culture and origin, we proceed to show. The Sumerians may have been Aryan by race as shown by the form of their noses and heads, and they may not be Semitic. Even the Semitic people are treated by most anthropologists as related to the Aryan race and not as Dravidians. But it seems certain that the Sumerians are not a branch of the Indo-European Aryan family and probably did not come from the Arctic home, the exodus from which is described in a passage of the Zend Avesta pointed out by B. G. Tilak.

In the first place, similarity or even identity of myths can not be treated as proving identity of race and culture, unless supported by other arguments. For religious myths are usually based on the different aspects of nature which among all peoples first suggested them their conceptions of gods; and men unconnected often imagine identical or similar stories to explain natural phenomena. Then again myths travel from one community to another in various ways, usually through casual intercourse, often by even hearsay. Hence it is necessary to support arguments derived from myths by those derived from language and from tradition. In the light of these remarks we will examine the myths adduced by Mr. D. N. Apte in his brochure.

Indra is the highest deity with the Rigvedic Aryans having displaced Varuna who was the highest in oldest times, and Indra's greatest exploit is the killing of Vrītra. To match with this, Mr. Apte points out that Bel was at first the highest god with the Sumerians, but his place was subsequently taken by Marduk who is the exact counterpart of Indra. The story

of Marduk's exploit is given in Sumerian mythology as follows:-He is the son of Ea the goddess of earth. Taimat was a dragon born of primeval waters. Other gods refused to go against her, but Marduk at their prayer attacked Taimat in primeval waters and killed her with his spear and club "He split her up like a flat fish in two halves and bade the waters come forth; and light was then created, for he overcame the monster as a solar god" (p. 31) "He opened the two gates on both sides of the firmament for Sams (the sun-god), who every day journeys from one end to the other across the worlds. The god then praised Marduk in odes" Mr. Apte hereafters quotes similar poetic descriptions of the feat of Indra killing Vritra from the Rigyeda. The outations no doubt show a good deal of diligent diving into the hymns of the Rigveda. But similar poetical ideas are bound to be found in the most distant and unconnected poems and the idea of the strongest god killing a dreadful demon who was in the form of a huge serpent is also likely to occur to any people. The idea of the creation of the world and of light out of some primaeval waters overspread with darkness, is also a natural suggestion and these ideas exist among almost all intelligent peoples. We must mark, however, that Marduk and Taimat are names vastly different from Judra and Vritra. If the Sumerians and the Vedic Aryans had been one people, these names could not have been so dissimilar.

The story of Gilgamesh given hereafter by Mr. Apte seems to be irrelevant, as it has nothing to do with the question of the indentity of Sumerians with the Vedic Aryans and as no counterpart of Gilgamesh is shown among the latter people. The story of the Rāmāyana is not Vedic but is plainly Puranic, though Rāma is a Vedic hero. Further, parallel ideas and descriptions appearing in the

Rāmāyana given by Mr. Apte simply go to prove that poets portray and imagine events in different countries and times in the same manner, because they have the same humanity in them. Such similarities do not prove copyng from one by the other or by both from a common source. The story of Gilgamesh cannot hence be said to have been copiled in the Rāmāyana. The story of the Deluge is next referred to as originally Sumerian and thence borrowed by the Satapatha. The two stories no doubt are very similar but how do they go to prove that Sumerians and Vedic Aryans were one people? Cannot such legends arise among different peoples by imagining a world defuge from heavy floods which often occur in every country? Even if we grant that the Satapatha story is a copy of the Sumerian original, as the story is not given in the Rigveda, but later, and as communication between Mesopotamia and the Panjab after 3000 B.C. is an undeniable fact, one can believe that the story came from the Sumerians to India and was given by the Satapatha in its own way, after making suitable changes in it. It is, however, necessary to remark that there is no similarity of names even here and hence borrowing is not as certain as in the case of Taimat, Aligi, Biligi &c borrowed by the Atharvaveda, the date of which we have fixed to be about 2700 B. C. lying between 3000 B.O. and 2350, the estimated period of occupation of Sind by Sumerians. We have even suggested at page 39 that some Indo-Aryan people went into Mesopotamia and Asia Minor and established the kingdom of Mittani.

Mr. Apte next notes the identity of the Indian and Sumerian Yugas. It is mentioned that Yugas and Rāśis were borrowed by the Hindus from the Chaldeans who were great observers of the sky. But this borrowing, Mr. Apte "fails to notice, took place far later, indeed after Alexander's

invasion, when the Hindus and the Greeks came into closecontact about 300 to 100 B.C. In Rigvedic times and the days of Vedanga Jvotisha, practically from 3000 to 300 B.C. the Indo-Arvans had their own astronomy based on Nakshatras which are purely Indian. Had the Vedic Aryans come in a second invasion from Mesopotamia via Persia, they would have brought the ideas of Rasis and Yugas, with them and used them in their Sūtras &c. That there is no trace of Rāśis and Yugas in Vedic literature or indeed in any Indian literature up to 100 B. C. is the surest proof that Indo-Arvans never came from Mesopotamia in Vedic or post-Vedic days. Nay further, as the Sumerians do not show acquaintance with the Vedic Nakshatras which they had settled in Rigvedic times, it is nearly certain that the Sumerians and the Indo-Aryans did not live together in the Arctic home of the Aryans.

But besides this dissmilarilty, there are others of an important character between the two peoples. The difference of language is the most striking. We speak open to correction, but we believe that the Sumerian language is not akin to Vedic Sanskrit. Comparative philology, not mythology alone, has established the unity of race of the Indo-Aryans and the Iranians as also of the Germanic peoples and the Greeks and the Romans. The similarity of language between the Vedic Aryans and the Iranians is so complete that whole Vedic mantras are often identical with the gathas of the Zend Avesta. Similarity of language, mythology and worship leaves no doubt whatever that the Vedic Aryans and the Iranians were cousin peoples, the Devas and the Asuras of Vedic literature. The Asuras are often supposed to be represented by the Assyrians; but this similarity of name is not backed by similarity of language or of mythology or of worship; and it is a mistake to look upon the Assyrians as the Asuras of the Vedas. The Sumerians similarly can not be looked upon as akin to the Vedic people in consequence of difference of language. Mr. Apte has pointed out the affixes gu and sig in Sumerian as identical with gu and su of Sanskrit. But these few instances can not prove affinity of language, which is established by similar syntax and vocabulary generally.

The names and conceptions of deities are also very dissimilar. We have not Varuna, nor Savitri, nor Yama among the Sumerians, while Shams is a word unknown to the Vedic language. The word Mitra does occur as pointed out by Mr. Apte, but it is not the usual word for the Sun and it may have been taken from the neighbouring Iranians. the polar-region-deity is conspicuous by her absence among the Sumerians, while the conception of Istar is not to be found in the whole of Vedic literature. Most conspicuous of all the absences, is that of the deity of fire or god-Agni. Fire and the sun are the most natural gods of people living in the Arctic regions; but fire is not mentioned as a god with the Sumerians or with the Assyrians. It is the highest with the Iranians along with the Sun and they are unquestionably the Asuras of the Vedas. There is no trace of fire-worship, it may be noted further, in the supposed seals of the Kanya and Kakshīvat. It can not be believed that the Sumerians forgot or gave up fire worship when they came to hot lands and took up new gods. Bel, Ishtar and Nini. The Iraniarns and the Hindus have not forgotton or given np fire-worship in the hot plains of the Panjab or of Western India. It is, therefore, difficult to hold that the Sumerians and the Vedic Aryans were two branches of the Aryan people of the Arctic regions.

There are other striking differences in their civilizations and conditions which may also be noted. The Vedic Aryans and the Iranians were worshippers of the cow and cows were plentiful in their lands beyond the Indus as well as in the Panjab. The seals show that the Sumerians worshipped or rather used buffaloes which were plentiful in Sind, their home land. The Rigveda does not mention the buffalo at all. They probably did not know it, as it is stated in the Puranas that the buffalo was a new creation by Viśvāmitra. If the Vedic Aryans had come from Mesopotamia, they would certainly not have forgotten the buffalo. Nay more, the Mudgala of the seals of the land of buffaloes can not be the Mudgala of the Rigveda who had a lakh of cows; for there could never have been cows in such plenty in Sind in those days. Then again while the Rigveda shows no trace of the buffalo, the Sumerian seals show no trace of the horse which is spoken of constantly in the Rigveda and which was so plentiful with the Vedic Aryans. Iron too is not found in the new discoveries but it was plentiful with the Vedic Aryans. It seems, therefore, extremely probable, that the Sumerian finds in Sind and Lower Panjab have nothing to do with the Rigvedic civilization, which from astronomical data, is proved to be as old as 5,000 B. C.

It may be stated in conclusion that it is not necessary for our history of Vedic literature to refute the theory of Prof. Waddell or of Mr. Apte that the Sumerians were allied to the Vedic Aryans, or the interesting suggestion of Mr. Apte that they both went from their Arctic home into their respective lands. For all one knows, the Sumerians may be one with the Vedic Aryans from the several points of contact noted by these scholars. But our history requires that the idea of Prof. Waddell that the Rishis of the Rigveds

and the Acharyas of the Brāhmanas and Sūtras were-Sumerians who came in a second invasion to India about 700 B. C. and "not earlier" should be refuted This theory is rejected by Mr. Apte as without any proof and the above facts and arguments, we think, rightly negative it. Mr. Apte's theory about their coming from their Aretic home may be accepted, if it is ascertained that the Sumerian language and Vedic Sanskrit are akin*.

VII KĀTHAKA AND MAITRĀYANĪYA SANHITĀS OF BLACK YAJURVEDA.

These have been published by Shraeder and so far asone can scrutinize them, they are nearly the same, though many minor variations are to be found, made consciously or otherwise for variation as well as for difference of ritual. The Taittiriya Sanhitā seems to be the oldest of all the Black Yajurveda Sanhitās and these later recensions are obviously abridgments though Brāhmaṇa portions still remain. For these recensions, like the White Sanhitā do not separate Mantra and Brāhmaṇa. These Sanhitās, however, are later than the White Yajurveda Sanhitā as will appear from the facts noted further on

The Maitrāyanīya Sanhitā is divided into Prapāthakas or lessons while the Kāthaka is divided into Sthānakas which is a new word in Vedic literature. There are 41 such Sthānakas in the Kāthaka Sanhitā. The last Sthānaka is described as follows:—इति एकोत्तरहातहास्वाध्यपुर्मेन्द्रभिन्ने श्रीमदाज-

* Sin (noon) may be the basis of सिनीवाली though the word means food in the Rigveda. Yavha, as pointed out by Tilak, appears as Jehova in the Jewish language. But one or two words cannot establish affinity of language.

वेंदकाठके चरकशाखायामिटिमिकायामेकचत्वारिशं स्थानकं सम्प्र्णम्।।. This is clearly a modern description. What Ithimika is it is not possible to say; the name is a strange one. Each sthanaka is separately named from its contents. These sthanakas are much smaller than the Prapathakas of the Maitrayaniya Sanhita but the contents of subsections which probably are called Anuvākas in both are the same; and the larger divisions also are on the same subjects such as Agnihotra, Chāturmāsya &c ending with Agvamedha, as in the Taittirīya Sanhitā: and in that last section we have the same mantras relating to the strange rite of the Asvamedha sacrificer's queen being made to lie with the dead horse. The Kathaka Sanhitā has accents, throughout both its prose and verse parts; but some prose in the Maitrayaniya Sanhita is without accents. The Rudradhyaya which is so popular a part of the Black Yajurveda is found in both, with many variations and some abridgments, as compared with that of the Taittirīva Sanhitā

The following interesting statements in the Kāthaka Sanhitā are noteworthy:—

- 1 The Sanhitā begins with the usual words इवे त्वा and the ending of the first sthānaka is as follows; इति श्रीयज्ञिष काठके भरकशास्त्रायामिठिमिकायां पुरोडाशस्थानकं नाम प्रथमं समाप्तम्।
- 2 माडींकं (धेहि जीवसे) and गयस्कानी (2, 14) are reminiscent of Sumerian names
- 3 Various Rigvedic mantras are quoted now and them.

 •. g. अच्छ मे सोमो अववीत , जुडो दसूना, उप त्वोग्न दिवे दिवे &c.
- 4 इसे यहा भृगुभिर्यहा वायातभिराशीर्मिक अधर्वभिः ॥ Bhrigu and Atharvan are Rishis of magic spells.
- 5 The word Veds signifies now the Vedic compilations.

 कृतवन्तं कुळायिनं रायस्पोर्षं सहस्राणिम् । वेदो वाजं बृदातुः मे वेदो वीरं दृदातुः मे ।।
 इदा कुवण्यतीभ्यो वेद्वयनीभ्यो नमः ।।

15

- 6 प्रेयमेश नाम बाह्मणा आसन् some of whom kept Agnihotra and others did not. This refers probably to other Aryan peoples who were, however, treated as Brahmins.
- 7 प्राची दिशमरोचयन् हात्तिका: The Krittikas' rising in the east is a phenomenon also noted in the Satapatha. This is the same phenomenon and gives about the same date to this Sanhitā; it is, however, later by a century or two, as will appear further. The Krittikas are seven सम ने कृत्तिका:
- 8 Rohiṇī is also mentioned as also the two heavenly dogs (ব্ৰিনা ধানী). Chitrā is also mentioned as Aindra Nakshatra.
 The deities presiding over Nakshatras were well fixed.
 - 9 Brahmins, Kshatriyas and Vaisyas kept Agnihotra.
- 10 आपो वा अग्र आसीत् प्रजापतिर्वराहो भूत्वा न्यमज्जत् is found here also, the precursor of the Varāha incarnation story.
 - 11 अग्निरश्रो भूत्वा देवानगच्छत् स यत्रातिष्टत्स अश्वत्थः ॥
- 12 नैमिष्या वे सत्रमासत उत्थाय सप्तविंशति कुरुपंचालेषु बत्सनरानन्ववत तान् बको बाल्भिरज्ञवीत् यूयं विभज्ञथ अहं घृतराष्ट्रं वैचित्रवीयं गमिष्यामि ॥ (8, 2) This clear reference to Dhritārāshtra, son of Vichitravīrya, places this Sanhitā a little later than the Satapatha. Vyāsa cannot be the author of this Sanhitā. Baka, son of Dalbha is a teacher mentioned in Chhāndogya, as also the sacrificers of Nimisha forest.
- 13 Magic rites are prescribed by this Sanhitā also and it seems that the Atharvaveda had not yet been compiled or had not yet become the Veda of magical rites (अभिचरन अभिचर्यमाणो वा.)
- 14 The Vedic metres were yet looked upon as seven only, the subsequent seven were added later (न जगत्या परिकृष्याकृत्ती वैषा उन्त्साम् 12, 4.)
- 15 Different animals were offered to different deities (आश्विनमजमालभेत सारस्वती मेदीमेन्द्रमूचभं वा वृद्धिंग वा). The food oblations were offered in dishes formed of different numbers of Kapālas, the number strangely being very important.

(अष्टाकपाल द्वादशकपाल &c.)

- 16 In the Rājasūya ritual, the idea of Rāshtra or state is given expression to (राष्ट्रं दत्त, स्वाहा राष्ट्रदा: &c.)
- 17 The Mantra तत्पुरुषाय विद्याह महादेवाय धीमहि। तत्रो रुद्र:प्रचोदयात् shows that this Veda is devoted to Rudra-worship. The word Mahādeva is also indicative of a late date. This mantra is used with necessary changes in all subsequent Puranic deity-worships. It is obviously based on the Gāyatri mantra of the Rigveda



SECTION II—BRĀHMANAS

History of Sanskrit Literature

ŚRUTI PERIOD

Section II—BRĀHMAŅAS

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S'RUTI PERIOD

SECTION II - BRĀHMANAS

I BRĀHMANAS IN GENERAL

Following the example of the S'atapatha Brāhmana, containing explanatory notes on the Vajasanevi Mantras and exposition of sacrificial procedure generally, a vast Brāhmaņa literature arose and gathered round the other Vedas in due The word Brāhmana (neuter) means a work containing explanation of Brahman or Vedic Mantras. The word has not been explained by Pānini, but he uses it in this sense as in the sūtra which refers to Brāhmanas declared by the old sages. The word occurs also in Vedic literature including Brāhmanas themselves, as meaning Vedic explanation (इति इ बाह्मणम्, तस्योक्तं बाह्मणम् A. B. VIII, 2 &c). The Brāhmaņas, besides explanatory notes on Vedic Mantras, contain discussions on the ritual of Vedic sacrifices. Such discussions must

In the Tarpana ceremony of the Śankhavana Grihya Sūtra, also attached to the Rigveda, we have these Achāryas and further, Bhāradvāja, Jātūkarņya, Śākapūņi and Gautama. In both, after these names, is given a general clause "and others" not mentioned (ये चान्येप्याचार्यास्ते सर्वे तृप्यन्तु). From this and from Pānini's sūtra referring to old and new Brāhmanas, the conclusion is irresistible that much Brāhmana literature has been lost. Probably the best in it has survived; or it may be that some particular Brāhmanas alone have survived by the survival of their Sakhas, as it was impossible to preserve such vast literature by memory, all Vedic works being then taught from mouth to mouth and preserved by memory. It is not easy to find out Brāhmana authors of the other Vedas whose works have been lost. For in their Grihvasūtras, there is no Rishi Tarpana by separate names, nor of course Achārya Tarpaṇa. Thus Gobhila Sūtra mentions Rishi-Tarpana and Achārya-Tarpaṇa, but gives no details and includes in one category all the Rishis or the Acharyas (of the Sāmaveda). The Pāraskara Śūtra of the White Yajurveda similarly mentions Rishis and Achāryas generally; so also the Apastamba Sūtra. The Hiranya-keśi Sūtra does the same; but it prescribes a Rishi-Pūjā in which besides the wellknown seven Rishis is placed Agastya in the south and certain Achāryas are also seated; the names. are many and include Krishna-Dvaipāyana, Jātūkarnya, Gautama, Vāmadeva and Parāśara; seats in a different place are provided for Vaiśampāyana, Paliñgu, Tittiri, Ukha, Ātreya (said to be the author of the Taittirīya Samhitā pada text) and Kaundinya said to be the Bhāshyakāra. Whether these wrote Brāhmaṇas or mere Sūtras cannot now be determined. Indeed they are all now usually called Rishis.

We will speak of the Brāhmana literature which survives, in detail presently. This literature is all in prose, as stated already, the language of which strikes us as later than that of the Rigveda. It is, however, still not classical Sanskrit nor even the language of Pāṇini. It is still Vedic language. The constant repeating of sentences is a peculiarity of this language derived from the Black Yajurveda Samhitā where the first Brāhmana treatment of a subject appears. The repetition, however, as shown before, is necessary; but to us, devoid of all interest in or respect for sacrifice, the reading of the Brāhmānas is tiresome and even troublesome, as they contain, in the words of Max Müller, 'theological twaddle.' Probably this led to the composition of Sutras in the next period. The prose of the historical or philosophical portions of the Brāhmaṇas is, however, vivacious and even graceful. The highest development of Vedic prose may be seen in the prose Upanishads, especially the Brihadāranyaka which, as we will show later, rivals even the oratory of ancient Greece.

Coming to the deities praised in the Brāhmaṇas, we find generally the old Rigvedic deities still praised. But Vishṇu, Rudra and Prajāpati rise to the status of highest gods. Prajāpati, as father of all gods, is constantly referred to in the explanations. We can mark how Indra and other gods declined in power and became simply divine beings who have attained to their godly position by sacrifice.

We next come to the difficult and disputed question regarding the age of this literature. For the development of all this literature, including the Upanishads, that a period of about a thousand years must be assigned is conceded by most scholars. But the termini, i. e. the beginning and the end of this period of a thousand years, are in great dispute. We look upon this vast literature as evolved from about 3000 to 2000 B. C., while most European scholars place the Brāhmanas from about 1200 to 200 B.C. The chief cause of this extreme divergence of opinion is the difference of dates assigned to the Satapatha Brāhmaṇa. This Brāhmaṇa is, from the legend of its composition, unquestionably the oldest Brāhmaņa and its composition, as stated already, must be placed in about 3000 B. C. S. B. Dixit has shown this from the statement in the second Kāṇḍa (accepted by all to be its old part) that the Krittikas rise exactly in the east. We have

said in our introduction that this theory of Dixit has neither been noticed nor refuted by any European scholar; but in the History of Indian Literature by Winternitz, translated into English and published quite recently, a refutation of this theory of S.B. Dixit is found at p. 298. In a note, Winternitz notices how Dixit, followed by several Indian scholars, has concluded from the above passage in the Satapatha that it was written in about 3000 B.C. But it is urged in refutation that the sentence 'The Pleiades do not swerve from the east' should probably not be interpreted as meaning that they rose due east. "The correct interpretation," says Winternitz, "is more likely that they remain visible in the eastern region for a considerable time-during several hours every night-which was the case about 1100 B. C." This interpretation was suggested by a German astronomer, Prof. A Prey (foot-note 2, p. ditto). More recently still, the same argument and interpretation has been put forth by an Indian astronomer, Mr. Daphtari of Nagpur, in the Vividha-Jñāna-Vistāra of Bombay (Jan. 1928), on the basis of the remark of Winternitz or independently. How this interpretation is untenable we shall show in a note, as this subject is rather technical. The ordinary reader can, however, clearly see that the author of the Satapatha statement could not have meant that the Krittikās came on the eastern line two or three hours after

their rise. The wording clearly refers to the rising of the Krittikas and cannot be distorted to mean something else. But what is a more cogent answer is that this new date for the Satapatha, viz. 1100 B. C, cannot fit in, unless the date of the Vedānga Jyotisha is also shifted onwards. The Vedānga Jyotisha must be placed many centuries after the Satapatha and its date from the astronomical statement in it comes, as already shown, to about 1400 B. C. Even Max Müller could not bring it down to any date later than 1181 B. C. with the help of the astronomer Archbishop Pratt. It, therefore, follows that the date of the Satapatha must be several centuries earlier than 1180 B. C. Winternitz, therefore, cannot change the meaning of the words of the Satapatha and assign a new date to it, unless he refutes the date of the Vedanga Jyotisha, deduced from astronomical statements in it. This he has not done: for he simply states at page 289 that 'the Vedanga Jyotisha being in verse is of a later date'!!!

The S'atapatha is further accented and belongs, therefore, to the Samhitā period. It was naturally followed by the Taittirīya Brāhmaṇa which also is accented. The Taittirīyas would be the first to emulate the Vājasaneyins in enunciating a Brāhmaṇa for their Veda. The Brāhmaṇas of the other Vedas followed in due course. These were followed by Āraṇyakas ending in the composition of the Upanishads, ten of which are considered

to be the leading ones. Now a subsequent Upanishad, viz. the Maitrāyaṇīya, furnishes us with an astronomical statement on which its date, as already shown, has been calculated to be about 1900 B.C. This supplies us with the second terminus for the age of the Brāhmaṇas, which thus extends from about 3000 B.C. to 2000 B.C. There are many other Upanishads; but they are plainly modern and may be omitted from consideration in settling the period of the Brāhmaṇas as the word is understood by orthodox Hindus.

Prof. Bhagvad Datta of D. A. V. College, Lahore in his recent book on the Brāhmaṇas assigns them to the Mahābhārata period; unfortunately he no-where states what this period is. The Mahābhārata, as we have it, is assigned by most European scholars to 500 A.D., whereas we assign it to 250 B.C., a date accepted by Lokamānya Tilak in the Gītārahasya. The Bhārata fight took place in 3102 B. C. according to our view; but most European scholars and Tilak place it from 1400 to 1000 B.C. The Mahābhārata period is thus an indefinite expresssion and leads to no particular date.

Lastly, the Brāhmaṇas developed what is found in embryo in the Samhitās, notably the Black Yajurveda Samhitā, in the matter of legends, theological explanations and etymologies. Thus the idea that the gods acquired power by sacrifice is to be found in the last verse of the

Purushasūkta. Againa verse in Rigveda VII. 33 states that the Vasishthas increased the power of Indra by their loud chants. Vasistha's sons being killed is hinted at in a sentence in the Black Yajurveda Samhitā as well as in a sūkta of the Rigveda. The Sunaḥśepa story is hinted at in R. I. 24 as we shall presently show. The story of the serpents' mother is suggested by R.X. 189. These stories were further developed in the Purāṇas naturally enough.

II THE S'ATAPATHA BRĀHMANA

Speaking now of individual known Brāhmaņas in detail, we come first to the Satapatha which we hold to be the oldest of all. Macdonell thinks that it is the latest, except the Gopatha of the Atharva Veda, as it shows an advance in matter, uses the narrative tenses and has a style and language decidedly more developed than the other Brāhmanas. But these cannot be said to be decisive factors as they might be due to the higher genius of its writer, viz. Yājñavalkya. As said before, the legend of its composition is acceptable and Yājñavalkya, dissatisfied with the Black Samhitā, which, gives both Mantra and Brāhmana together, may be believed to have separated the Mantras and written an extensive separate Brāhmana. This Brāhmana is called Satapatha, as it has a hundred chapters; but this name must be looked upon as given later on to it. For the Brāhmana has now fourteen Kāndas, the first ten of which, containing 66 chapters, appear to be the old portion of it. In the first five Kāndas, there is a continuous commentary on the first 18 chapters of the Vajasaneyi-Samhitā enunciated by Yājñavalkya himself-and Yājñavalkya is mentioned therein by name as. the final authority. The next Kandas, VI to X.

do not mention him but mention Sandilya as the authority. This is, however, no argument to hold that Yājñavalkya did not compose these Kāndas. Yājñavalkya accepts the authority of Śāndilya on their subjects and thus mentions his name. His mentioning his own name in the first five Kandas cannot also be treated as indicating that these were composed by some other person than Yājñavalkya. For even in some Rigvedic hymns, we find the authors mentioning their own names in them. We also find that Jaimini, Bādarāyana and Kautalya in their works similarly mention their views under their own names and indicate that they are the final views on the matters. We may well believe, therefore, that these ten Kāndas are by Yājñavalkya and hence are as old as 3000 B. C.

The Mādhyandina recension of the Satapatha has fourteen Kāṇḍas but the Kāṇva has seventeen. Kāṇḍas XI to XIV or XVII are, however, distinctly later additions. The matters they deal with are later subjects such as Upanayana, Śvādhyāya, Purushamedha and Sarvamedha. We have already seen that the Vājasaneyi Samhitā, Adhyāyas 26 to 35, are Khila or supplementary and it is these which contain a description of the Purushmedha. It is, therefore, apparent that when these later Adhyāyas were added to the Samhitā, their explanation or exposition was added later in these later Kāndas. Some

believe that the tenth Kāṇḍa is also a later Kāṇḍa; for Kāṇḍa 12 is said to be Madhyama-kāṇḍa by some which leads to the same inference, since XII would be the middle of the portion from X to XIV.

The prose of this Brahmana is accented which, as stated before, proves that it is an old Brahmana, all other Brāhmanas except the Taittirīya being without accents. Macdonell detracts from the value of this argument by observing that "its accentuation differs entirely from the regular Vedic method' (p. 203). But the accentuation of the Vājasaneyi-Samhitā also differs from the accentuation of the other Vedas and hence this difference also. This difference was introduced either by Yājñavalkya himself or by the followers of his Veda in later times. The mode, however, of pronouncing the accents is different but not the rules of laying them, so far as we know, which, as given by Pānini in his grammar, are applicable to all Vedas alike.

The Sāṇḍilya Kāṇḍas speak of the Gāndhāra, Kekaya, and Śālva peoples while in the other Kāṇḍas are mentioned "hardly any but the eastern peoples or the people of middle Hindusthan", viz. Kuru-Pāñchālas, Kosala-Videhas, Sṛi-ñjayas and others (p. 213, Macd.) This certainly supports the story noted before that Yājñavalkya was a native of Videha and that King Janaka of Videha was his pupil. But we must remember that

there was constant communication even in those days in all the three parts of the Aryan land, viz, (i) Gāndhāra and the Panjab, (ii) Kuru-Pānchāla and the middle land, (iii) the eastern part, Kosala and Videha. We know that the Brāhmanas themselves declare that grammar was zealously studied in the northern part and ritual in the middle. Pāṇini (800 B. C.) was a native of Gāndhāra: and the Kuru-Pānchāla land was the centre of Aryan civilization. The mention of Gāndhāra and Kekaya alone in the Śāndilya Kāndas does not, therefore, show that they were not composed by Yājñavalkya. It may be that Sandilya belonged to the north-west and as Yajñavalkya accepts and quotes his authority, he has occasion to mention the northwestern people only. It is not also necessary to suppose that this section is an interpolation in the Satapatha because it mentions the north-western people only. Even if it is an interpolation, it must be an older section, for the same reason, than the rest of the Satapatha, older than the first five Kāndas of Yājñavalkya. The conclusion, therefore, is that while Kandas XI to XIV are, most probably, an addition, the first ten Kāṇḍas of the Satapatha are a work of Yājñavalkya. The last or fourteenth Kānda is the well-known Brihadaranyaka Upanishad, the date of which may be taken to be about 2500 B. C., as we shall show when speaking of the Upanishads and hence the composition of the Satapatha as a whole belongs to the period from 3000 to 2500 B. C. Thus both by its date and its extreme fulness, this Brāhmaṇa, as Macdonell rightly observes, "next to the Rigveda, is the most important production in the whole range of Vedic literature" (Macd. p. 212). It is important for the study of the development of sacrificial ritual, theological speculation and Vedānta philosophy.

It is also important in connection with the history of the Indo-Aryan peoples. It gives several legends in this connection. The legend of Māthava is interesting and shows how the Indo-Aryans advanced into Mithila or Videha, or modern Behar. It is contained in the first Kanda. From the banks of the Sarasvatī, this king with his Purohita, Gotama Rāhūgana, went eastwards taking their sacrifical fire with them and came to the Sadānīrā, the western boundary of Mithilā. The land beyond was not burnt by Agni Vaiśvānara who stopped on its bank. He, however, said to Māthava Videha "To the east of the river be thy abode." The land was then occupied by the king, and the Brāhmanas who did not formerly cross the river crossed it. "Even now." says the Brāhmana "this river is the boundary between Kosala and Videha" (I. 4,1). It may be noted that the Aryans had advanced into Kosala in the days of the Rigveda which mentions the Sarayu as stated already. The advance into

further Mithila mentioned in the first Kanda of this Brāhmana may, therefore, be put some time before 3000 B. C. The Gotama family even in the Rāmāyana is shown as the family priests of Janaka. Here again Yājñavalkya developed his philosophy. This land in future centuries became also the birth-place of Buddhism and Jainism, which used certain words in special senses such as Arhat, Sramana and Pratibuddha used in this Brāhmana to indicate monks generally. The idea of renunciation took root in this country and grew later into the colossal tree of the renunciation of Mahavira and Buddha. Macdonell, however, rightly remarks that these words in the Satapatha have not yet the sense attached to them by these religions. Arhat, Śramana and Pratibuddha are words which in later literature apply only to Jain and Buddhist monks.

Macdonell also points out that Gautama is the name "which frequently occurs among teachers in the Satapatha and that name is the family name of the Sākyas of Kapilavastu among whom Buddha was born" (p. 215). It may be added here that the Sākyas were Kshatriyas and their taking the name Gautama is explained in Saundarānanda, a Buddhist poem, on the theory that Kshatriyas take the gotras of their purchitas. The Sākyas, however, are nowhere represented as belonging to the Janaka clan. Asuri, again, a teacher subsequently mentioned in connection

with Sānkhya philosophy even in the Mahābhārata is also mentioned in the Satapatha. Of historical kings, Dushyanta and Bharata are mentioned among sacrificers of As'vamedha(XIII 5,4). Janamejaya is also mentioned who is unquestionably the Janamejaya of the Mahābhārata, the son of Parīkshit, grand-son of Arjuna. The Pandavas are, however, not mentioned; but this non-mention can be of no historical value as their mention cannot be considered to be necessary. On this and the mention of Janamejaya we shall have to speak in detail when speaking of the Mahābhārata, later on. Lastly, Janaka, mentioned in connection with Yājñavalkya, cannot be identified with the father of Sītā, the heroine of the Rāmāyana, as Macdonell thinks. Janaka is a family name and the Mahābhārata (Śāntiparva) mentions more than one Janaka with different individual names. On this also, we shall have to speak in detail when we come to the Rāmāyaṇa. There are many legends in the Satapatha, one of which must be mentioned here, viz. the story of the Deluge, so wellknown in Jewish history. The man saved in the Satapatha story is Manu and his boat was tied to a peak of the Himalayas, while in the Jewish story the person saved was Noah and the mountain peak was that of Mt. Sinai. The original story was probably Chaldean as among the Chaldeans, the first man is also named Menon.

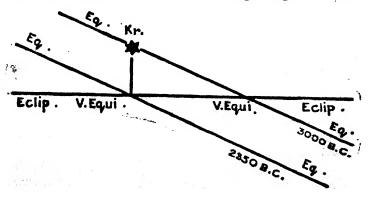
Note 1:-Dixit's date of the S'atapatha questioned by Winternitz and Daphtari.

The late S. B. Dixit has fixed the date of the S'atapatha Brahmana from the statement in it in Kanda II. "The Krittikas do not swerve from the east" (एता वे कृतिका प्राच्ये दिशो न च्यवन्ते) to be about 3000 A. D. Winternitz, as stated already, questions this theory of Dixit and proposing another interpretation of the above sentence holds, on a calculation made by Prof. A. Prey, that the date of the S'atapatha is about 1100 B. C. Winternitz admits that if the sentence, quoted above, meant that the Krittikas rose due east, the date arrived at by astronomical calculation on this basis by Dixit is correct. We have, therefore, only to see whether Winternitz's interpretation of the sentence is the proper one. takes it to mean that "the Krittikas remain visible in the eastern region for a considerable time - during several hours - every night" (p. 298) and not that they rise due east.

Winternitz begins his objection with the observation that "the Indians of the most ancient times were concerned only with the position of the Nakshatras in relation to the moon and not to the sun and that there is not a single trace of any observation of the equinoxes to be found in the most ancient times." This remark is certainly incorrect, as the Indo-Aryans must have observed the position of the sun and the equinoxes in the most ancient times. They regulated their sacrifices both by the moon and the sun; the Pārvaṇa sacrifices (fortnightly sacrifices) by the month and the Sattras by the year. The yearly sacrifice was regulated according to the motion of the sun and the Vishuva day, when the sun is in the vernal or autumnal equinox and when night and day are equal, was the most important day

in the yearly sacrifice. The ancient Egyptians and Chaldeans watched the sun, the moon and the planets as they moved through the stars from their flat countries and the Indo-Aryans in the equally flat plains of the Panjab and the Kuru-kshetra must have made correct observations of the progress of the sun as well as of the moon.

But this subject has nothing to do with the rising of the Krittikas due east or their being observed in the eastern region. The Krittikas were not then in either equinoctial point and their rising in the east is a phenomenon entirely unconnected with the course of the sun and the moon among the Nakshatras. The Krittikās are about 4° to the north of the ecliptic and they can never be in either equinoctial point. When it is said that the Vasanta-Sampāta or the vernal equinox was in the Krittikas, it is meant that it was in the division of the ecliptic corresponding to the Krittikās, or at the utmost, in the point on ecliptic directly under the Krittikā constellation. In order that the Krittikas should rise due east, the vernal equinox must be some degrees ahead of this point, as will appear from the following diagram, the



constellations being some to the north of the eclipticand some to the south.

Now it is well known that the equinoctial points recedeconstantly through the Nakshatras, its present position being in Purvābhādrapadā. The rising of the Krittikās due east means that they were on the equator, which gives the crossing behind the point when the vernal equinox is said to be in the Krittikās. This will show to the reader that the rising of the Krittikās due east has no connection whatever with the vernal equinox being in the Krittikās.

We must, therefore, confine ourself simply to a consideration of what the sentence "the Krittikas do not swerve from the east" means. It cannot be twisted to mean that the Krittikäs come on the east line, some time after their rising, as Prof. Prey takes it to mean. Note 2 at page 298 reads "Prof. Prey informs me that the Pleiades in about 1100 B. C. rose approximately 13 degrees to the north of the east point, approaching nearer and nearer the east line and crossing it as late as 2 hours 11 minutes after their rise at a height of 29 degrees when seen from a place situated at 25 north. latitude." They thus remain, adds Winternitz, long enough to serve as a convenient base for orientation. Now it is not possible to accept this interpretation as the S'atapatha sentence adds to the above sentence "all other stars swerve from the east." The whole sentenceis as follows:- "These (Krittikas) do not swerve from the east while all other Nakshatras swerve from the east." If we do not confine the appearing of the-Krittikās in the east to the east point, but apply it merely to coming on the east line at some time after rising, the condition laid down in the second part of the above sentence is infringed. For any star that is to the north of the equator within 23° must come on the east lineeast some time or other after its rising. Moreover, the east point is on the horizon and can be marked easily from an observation circle made on a raised mound; the east line is in the sky and cannot be marked so easily when the Krittikās have to come about 29° above the horizon, i. e. nearly 1/3 of the heavenly quadrant in a flat treeless country like Kurukshetra. It is questionable if at such an altitude they could serve the purpose of orientation.

Mr. Daphtari takes a different objection to the interpretation which one usually puts on the disputed sentence and urges that the Krittikas are not visible as they rise. He states that from observations taken by himself, he finds that the Krittikas become visible when they are 13° degrees above the horizon. Taking the position of an observer at 30 degrees north latitude he finds by calculation that the time of the Krittikās being on the east line when 13 degrees above the horizon, comes to about 1800 B. C. In his desire to find a later date still for the S'atapatha he adds that the Krittikas are only faintly visible at 13 degrees altitude. If 2 degrees more are added, then their visibly coming on the east line would lead to a date about 180 years less than the above i. e. about 1600 B. C. This calculation even, as it is given in the Vividha-Jñāna-Vistāra, appears to be incorrect. The figures come to about 2000 B. C. and 1800 B. C.

This is a more ingenious argument than that of Winternitz but it leads to a date earlier by about 7 centuries. Our answer, however, to this argument is the same as above. We must grant that the Indo-Aryans, even so early as 3000 B. C, knew the east point perfectly well. The Egyptions, in the erection of their pyramids built about 4000 B. C. and earlier, had their sides exactly facing the directional points.

Even the east line can again be marked by its position in reference to the east point; and when we say that the ancient Indo-Aryans marked a star on the east line, we must admit that they knew the east point exactly. If the coming of the Krittikās on the east line at an altitude of 13° was intended, then some other star also at some altitude would come on the east line under this interpretation and the condition 'all other stars swerve from the east' would be infringed.

The observations made by Mr. Daphtari are not convincing. We believe that on dark nights when there is no moon and when the Krittikas rise some two or three hours after sunset or before sunrise, as they do at present in the months of Jyeshtha and Phalguna (June and March), the Krittikās must be visible even at 4 or 5 degrees of altitude. But even granting for argument's sake Mr. Daphtari's statement to be correct, we may admit that the ancients could have inferred from the position of the Krittikas a little southwards at an altitude of 13 degrees that they rose exactly in the east point. Such inference would be correct within two or three degrees of the east point which the ancients knew exactly and could not change the date of the S'atapatha by more than a century or two. We, therefore, think that the sentence in question must be interpreted to mean that the Krittikas were marked as rising due east.

We must lastly consider the supporting argument drawn from Baudhāyana Sūtra by both Winternitz and Daphtari. In the note above mentioned at page 298-Winternitz adds, 'This interpretation of the passage is proved to be the correct one by Baudhāyana Sūtra 27-5, where it is prescribed that the supporting beams of a hut on the place of sacrifice shall face the east and that this direction shall be fixed after the Pleiades

appear, as the latter do not dapart from the eastern region. It is true that about 2100 B.C. the Pleiades touched the east line earlier, but they proceeded southwards so rapibly that they were not suitable for orientation'. Mr. Daphtari quotes the same authority and gives further details giving a Baudhāyana statement which in effect means that the builder should mark Krittikās or S'ravana for placing his rafters pointed eastwards. He observes. "Here the direction is given for securing the eastward pointing by seeing either Krittikās or S'ravana, As S'ravana, being always to the north, can never be on the equator in the Brahmrshi country (Kurukshetra), S'ravana can only be seen on the east line when it comes above the horizon above 10 degrees. The word sandars'ana shows that S'ravana is seen on the east line after it has risen. a brilliant star like S'ravana has to come 10 degrees above the horizon, the Krittikas have to come even more than 13 degrees, say 15 degrees or 20 degrees, to be seen on the east line." This argument is further supported by Daphtari on the ground that the Krittikās are looked upon as a Devanakshatra, which it would not be if their rising is intended to be meant in the above passage.

In refuting this supporting argument from Baudhāyana we must first point out that Baudhayana's S'rauta Sūtra cannot be countemporaneous with the S'atapatha Brāhmana and must be placed several centuries after it. Indeed, its very statement giving another Nakshatra for fixing the eastwards of the rafters of the sacrificial hut shows that its date is much later. For while the S'atapatha says 'all other stars swerve from the east,' the Baudhāyana Sūtra gives another star. Hence this method is later and necessarily the meaning is different and even the wording. Baudhāyana uses the word 'diśam na

parijahāti' while the S'atapatha uses the expression 'diśo na chyavante'. In the days of the Baudhāyana Sūtra, the Krittikās had ceased to rise due east and and the Sūtra mentions them, only because it was an old custom to use the Krittikas for fixing the eastern direc-That method had become already incorrect and another method and another star had begun to be used. The meaning of the S'atapatha expression cannot, therefore, be settled by the word used by the Baudhayana Sūtra. As to the Krittikās being looked upon as a Devanakshatra, it has to be remembered that even if we look upon this distinction as based on the sun's being then in the northern course, that would point to the time when the vernal equinox was in the Krittikas and this time has been calculated both by Dixit and others, even Daphtari himself, to be about 2350 B.C. and not 1100 or even 1800 or 1600 B.C. as Winternitz and Daphtari try to assign to the S'atapatha, when even the Bharanis would come into the list of the Devanakshtras.

Note 2:- Grammarians on the Antiquity of the S'atapatha.

We have already referred to Pāṇini's sūtra growing antioned and shown that he speaks of Brāhmaṇas spoken by old sages and new. In explaining this sūtra Bhaṭṭoji Dīkshita in his Siddhānta-Kaumudī states that the Yājñavalkya Brāhmaṇas are not old and that, therefore, the word Yājñavalkya does not take the pratyaya noted here. This apparently contradicts our view that the S'atapatha is the oldest Brāhmaṇa we possess. It is, therefore, necessary to show how Bhaṭṭoji Dīkshita is wrong in his opinion.

Bhattoji quotes as an example of an old Brāhmaṇa Bhāllavin, which, being spoken by Bhallu, is called Bhāllavin and those who recite this Brāhmaṇa also go under the same name (महुना प्रोक्तमधीयते साइविन:). Another instance cited by the Kāsikā is S'ātyāyanin, 'composed by S'ātyāyana'. This sūtra means thus that a Brāhmaṇa spoken by a purāṇa sage takes the pratyaya in. Now, says Bhaṭṭoji, the Brāhmaṇas composed by Yājñavalkya do not go by the name Yājñavalkin but are named Yājñavalka, because Yājñavalkya in not a purāṇa sage. The Tattvabodhinī actually adds the gloss: Yājñavalkya and others are recent sages (याज्ञवल्यादयो हाचिरकाला: इति भारतादियु व्यवहार:) as stated in Bhārata and other works.

It is inexplicable how Bhattoji Dīkshita ignores here the vartika of Vararuchi on this very sutra of Pānini, viz. याञ्चवल्क्यादिम्यः प्रतिषेधः । तुल्यकालत्वात्. "This sutra has an exception in Yajñavalkya and others, as they are of the same time." This means that Vararuchi supplies a defect in Pāṇini's sūtra and states that the pratyaya given by him for the Brahmanas spoken by old sages does not apply to Yājñavalkya and others though these are as old, i.e. as old as Bhallu and S'atyayana, and that Pānini should have mentioned this exception. Patañjali gives the vartika and accepts it without comment. The gloss on Mahabhashya states that tulyakala means that Yājñavalkya's Brāhmanas are as old as those by S'atvayana and others. It seems thus clear that the -oldest grammarians after Pāṇini, Vararuchi and Patañjali, look upon Yājñavalkya's Brāhmanas as being as old as those of Bhallu and S'ātyāyana. This should override the wrong views of Bhattoji Dikshita and others. The Tattvabodhinī does not quote the ślokas in the Mahābhārata. The only reference in it to Yājňavalkya is in Anuśāsanaparva where the story of his enunciating the White Yajurveda and the S'atapatha is given and there

Yājñavalkya no doubt appears as a sage later than Vaiśampāyana and others. We must, however, understand that the word purāṇa is relative and he who is purāṇa with reference to some may be new with reference to many others. The real point is whether Yājñavalkya, as a Brāhmaṇa-writer, is a recent writer or an old one and Vararuchi and Patañjali declare that he is as old as Bhallu and S'ātyāyana. Vararuchi looks upon Pāṇini's not making an exception of Yājñavalkya in enunciating this sūtra as an omission. One may suggest that the use of the word Yājñavalka as denoting a Brāhmaṇa or a reciter of his Brāhmaṇa must have arisen later than Pāṇini and earlier than Vararuchi, who has, therefore, to notice this exception.

But this divergence of opinions among grammarians apart, this sūtra, as interpreted by Bhattoji even, simply establishes that Yājñavalkya as a Brāhmaṇa-writer is later than Bhallu and S'ātyāyana whose Brāhmanas have not survived. This, however, has nothing to do with the question whether the S'atapatha is older than the Taittirīya or the Aitareya Brāhmana. Now it is clear that the Taittiriya and the Aitareya Brāhmanas are not old Brāhmanas as contemplated by the above sūtra of Pāṇini. If they had been, the name Taittirīya would have been Taittiriyin and the name Aitareya would have been Aitarevin and the reciters of these would have been called Taittiriyinah and Aitareyinah. Vāsudevašāstrī Abhyankar of Poona, who is a good grammarian, contends that the form Taittiriya is established by another sutra. But he admits that, in that sutra, old or new sages are not mentioned. And even he could not say that Aitareya is an old Brāhmaņawriter; for the name in use for his Brahmana is-Aitareya and not Aitareyin. The extant Brahmanas, therefore, are all out of the province of this disputed.

sūtra of Pāṇini and we may look upon their authors as not old, compared with Bhallu and S'ātyāyana. We have to settle their order in time by other considerations and not by this sūtra or any comment on it by Bhaṭṭoji Dīkshita and others, as their comment only means that Yājñavalkya, as a Brāhmaṇa-writer, is laterthan Bhallu and others and not that he is later than Tittiri or Aitareya.

Prof. Raddi of Deccan College supplies us with an extract from Lagus'abdendus'ekara in which Nagoji-bhaṭṭa actually finds fault with Bhaṭṭoji Dīkshita for taking no account of the vārtika of Vararuchi on this sūtra of Pāṇini and looking upon Yajñavalkya and others, through pride, as later than Pāṇini. The extract is as follows:—

यामवल्कानीति । कण्वादिभ्य इत्यण् । ते हि पाणिन्यपेक्षया आधुनिका इत्यभि-मानः । भाष्ये तु शाट्यायनादितुल्यकालःवात् याम्नवल्क्यादिभ्यः प्रतिषेधस्त-दिषयता च नेति वचनमेवारब्धम् ।

III Taittiriya Brahmana.

Next in point of date and importance to the Satapatha Br. is the Taittiriya Brāhmaņa attached to the Black Yajurveda. The rivalry which existed between the followers of the Tittiri school of the Black Yajurveda and the white Yajurveda adherents must soon have led to the enunciation of a Brāhmana, in imitation of the Satapatha, for the Black Yajurveda. This Brāhmana is accented and, therefore, nearly as old as the Satapatha. It is indeed accepted by all scholars as an old Brāhmana. Its style is said to appear older than that of the Satapatha. This is due to its being dominated by the style of the Black Yajurveda Samhitā which gives both Mantra and Brāhmana together. The Taittiriya Brāhmaņa is thus only a continuation of the Brāhmana contained in the Samhitā. It has naturally the same style with the same repetition of sentences and gives the same kind of fanciful explanations and etymologies. There are not, however, many legends in it. It cannot be supposed to have been enunciated all at once. As the Purushamedha section was added later to the Vājasaneyi Samhitā and certain portions in explanations thereof were added to the Satapatha Brāhmana, this Purushamedha

first appears in the Taittirīya Brāhmaṇa in Kāṇḍa III. It does not, however, give the Purushasūkta yet. The list of persons required as victims at the Purushamedha is nearly the same as in the Vājasaneyi Samhitā. But curiously enough, the last two verses are omitted and we will comment on this omission later. Kāṇḍa III appears, therefore, to be a subsequent addition to this Brāhmaṇa, the first two Kāṇḍas being old, their style also resembling the style of the Samhitā.

The Aranyaka portion of it comes still later. Indeed an Aranyaka as such first appears in this Brāhmana: for there is no Aranyaka in the Satapatha. Though the latter has an Upanishad, later named Brihadāraņyaka, it calls itself in reality a Brāhmana. To the Taittirīya Brāhmana are added ten chapters, called Aranas by the followers of the Taittiriya school. Their names, which have been given to them from the first word in each are: 1 Bhadra, Vai. 3 Chitti, 4 Devā Vai, 5 Yunjate, 6 Pari Yuvā. 7 Śikshā. 8 Brahmavidā 9 Bhrigu and 10 Nārāyaṇa. Of these 7,8 and 9 form what is now known as the Taittiriya Upanishad; and the 10th, Nārāyaṇa, also an Upanishad, is plainly a later addition still, as we shall show when speaking of the Upanishads. There is a Suparnadhyaya in the last which has become popular with the Vaidikas generally. The Purusha-sūkta of the Rigveda, which similarly became popular with all and is taken in the Vājasaneyi-Samhitā and also in the Atharvaveda Samhitā, is given in the Chitti Araṇa of this Brāhmaṇa. The most popular Gāyatrī, however, appears, it may be added, in the Samhitā of the Black Yajurveda itself in two places.

The Taittiriya Brāhmana is divided into books originally called Kandas, but later, Ashtakas following the Rigveda division; and the first two Kāndas have really eight Adhyāyas, originally called Prapathakas. The third Kanda, however, has twelve chapters. A chapter is sub-divided into Anuvākas or sections. This name Anuvāka for a section is very old as it appears in this Brāhmana itself in Kānda III, 10, 10, which is, however, a later addition (एतावतुवाकावपरपक्षस्याहोरात्राणां नामधेयानि). These Anuvākas consist of sentences on some particular subject. The number of these sentences is counted and given at the end of the Adhyāya. The number of Padas is, however. not counted as in the Samhita. The number of sentences is counted by tens and each Anuvāka mentions the endings of each set of tens with the number of the remaining sentences given in words. This is in imitation of the Samhitā method wherein the padas or words are counted by fifties. One can thus find out the number of sentences in the whole of the Brāhmana. In the 28 chapters or Prapathakas of the three

Kāṇḍas or Ashṭakas, there are said to be about 17480 sentences. The endings of these tens and remainders are given in sentences which are also accented and are learnt by heart by Vaidikas, thus fixing the text almost unalterably.

The contents of the Taittiriya Brāhmana may be given as follows from the printed Sayana Bhāshya on it, these being mostly, as stated above, in further comment on the Samhita mantras. i. e. in addition to those comments which are given in the Brāhmana portion of the Samhitā The first Kāṇḍa contains chapters on Agnyādhāna, Gavāmayana, Vājapeya, Soma, Nakshatreshti and Rājasūya. The second Kānda contains chapters on Agnihotra and Upahomas as also on Sautrāmaņi wherein Surā or liquor is offered to Agni and drunk instead of Soma and on various Savas such as Brihaspatisava, Vaiśvasava etc. Mantras are given everywhere to be recited by the Hotri and the Adhvaryu and these mantras in the form of Riks are taken from the Rigveda generally but very often are new. It would be interesting to ascertain which are old and which are new. There are thus mantras to be recited at the time of Rajyabhisheka, of Ratharohana (ascending the chariot) and of Vapana or shaving of the Yajamana (sacrificing king). The highly philosophical sūkta 129 (नासदासा-नो सदासी तदानीम्) of the tenth Mandala of the Rigveda is strangely enough taken thus in Kanda 11,

Prapāṭhaka 8, for an Upahoma with water oblations. After this one Rik (4) is taken from R. X 81 wherein the philosophical questions are asked,

किंस्विद्धनं क उ स वृक्ष आस यतो धावापृथिवी निष्टतक्षु:। मनीषिणो मनसा पृच्छतेदु तद् यदध्यतिष्ठद्भुवनानि धारयन् (R. X, 81-4).

What was the wood and what the tree, pray tell us,, From which they fashioned forth the earth and heaven. Ye sages! in your mind, pray, make enquiry, Whereon he stood, when he the worlds supported.

The Brāhmaṇa-writer answers in a verse probably composed by himself and in the strain of Upanishadic philosophers:—

Brahma the wood and Brahma was the tree, From which the earth and heaven were chopped out; Oh sages! from my mind I say to you, Brahma he stood on, when supporting the worlds.

The Rigvedic Rishis were speculating. The Brāhmaṇa Āchāryas (this is the word used also by the Sāyaṇa Bhāshya) had developed the Brahman doctrine and had complete answers for all philosophical questions, even while they were engaged in settling the intricate details of sacrifices. In the Brāhmaṇa period, however, the sacrifice was still supreme; for we find a similar philosophical question put, but answered in the spirit of sacrificers. 'I ask you the farthest end of the earth and the centre of it.' "The altar is the end and its middle, the centre" was the reply.

पृच्छामि ला परमन्तं पृथिन्याः पृच्छामि त्वद् भुवनस्य नामिम् । वेदिमाहः परमन्तं पृथिन्याः । &c. (T. S. VII. 4-10).

In the third Kanda, added later, more detailed information is first given about the Nakshtreshti wherein separate Puronuvākyā and mantras are given for each Nakshatra. These verses are apparently new Mantras provided for this sacrifice. The 14 Devanakshatras beginning with Krittikas are first given and the 14 Yama Nakshatras beginning with Anurādhā are given in Anuvāka 2. Abhijit is now a separate Nakshatra though mentioned in Kanda I, Prapathaka 5, as an adjunct of Uttarāshādhā only. There are other Ishtis mentioned in the following two Prapathakas. The 4th Prapathaka gives the Purusha-medha victims. This is a new matter. entirely taken from the Vājasaneyi Samhitā. As stated already, this sacrifice did not exist in the time of the Black Yajurveda Samhitā. In the following four chapters are treated Yūpasamskriti, Yajñachehhidra (mistakes in performance) and further particulars about the performance of the Asyamedha and the various oblations at its Avabhritha etc. are given in the 9th chapter. The 10th, 11th and 12th chapters of this Kānda are called Kāthakas by Yajurveda reciters and are very probably still later additions. The Kāthaka Samhita is different from the Taittiriya and it has no separate Brāhmana. We have looked into the Kāthaka Samhitā, published by v. Schroeder and 3

we do not find there any matter corresponding to these Kāthakas. The pronunciation of some words in them differs, as स्वर्ग is pronounced therein as Svarga instead of Suvarga. So far as we have seen, there is no change in respect of other letters as Macdonell observes (p. 212). Both the Taittiriyas and the Kathas pronounce 'hya' as 'hya' and not 'hiya'. But what is more remarkable in these chapters is that there are fanciful names assigned to each day and night of the first fortnight and also of the second fortnight of months, the names of which are not the usual ones. Madhu and Mādhava etc.; the names here given are Aruna and Arunarajas and so on, with Mahasvan for the thirteenth month instead of Amhaspati as in the Samhita (III-10); and to fifteen minute divisions of a Muhūrta, itself one fifteenth part of the 12 hours' day. Further astronomical information is given in the fourth Anuvāka of III-10 mentioning the names of the years of the five-year cycle, viz: Samvatsara, Parivatsara, Idavatsara, Iduvatsara and Vatsara. This tenth chapter is devoted to the Savitra Chayana or sun-sacrifice.

In the eleventh chapter a story is related how Bharadvāja by 'brahmacharya' obtained only three handfuls of Vedic lore which is ananta "without end" (अनन्ता वे बेदा:) and these three handfuls form the Trayī Vidyā. Here apparently Bharadvāja is credited with knowing or formula-

ting the three Vedas. The fourth, the Atharva-Veda, is yet not known and this shows that the Atharva Samhitā was formulated after this whole Bhāhmaṇa, a subject discussed already in a special note. The 11th chapter is next concerned with the construction of the Nāchiketa fire; and in one Anuvāka the story of Nachiketas, sent to Yamaloka by his father, is given. Here final deliverance is said to be obtained by the Nāchiketa fire-sacrifice simply. This story is taken up in the Kaṭhopanishad and developed to teach the Vedānta doctrine of deliverance by knowledge.

In the twelth chapter (Prapāthaka) is described in full detail the Chatur-Hotra and then the Vaiśvasrija sacrifice which is wholly pervaded by the spirit of the Vedanta philosophy, now fully developed. The name means the abandonment of everything and this the philosopher does by a sacrifice. For the Chatur-Hotra are first prescribed seven preliminary Ishtis to Asa (hope) Kāma (desire), Brahman (Veda), Yajña, Āpah (waters), Agni and Anurati. Then follow additional oblations to Tapas, Śraddhā, Satya, Manas and Charana. Then coming to the Vaiśvasrija sacrifice the whole world is brought in for oblations. The whole is symbolical and the several parts of a sacrifice, as mentioned later on and symbolized. are an interesting study for one who wishes to know the several rites in a sacrifice. All animates and inanimates, all males, all females and all

sex-less beings, all animals, all stones, all rivers, all plants and trees, all iron, copper, silver and yellow gold are to become the bricks of this sacrificealtar as also all the directions, all the sky and whatever is in it and all spray and snow, all rays, lightning-flashes, all clouds, all waters in wells, streams and seas, and light, wind, fire, the sun, the moon, Mitra, Varuna, Bhaga, Satya and S'raddhā, all the gods, all the stars, all the Riks, Yajuhs, Samans and Atharvāngirasas as also, Itihāsa, Purāna and Sarpa-devajanas, all the worlds, days and nights, fortnights and months etc. everything that has been and will be, all this is to be made the bricks. Then the mantras to be recited are given which are probably new. The gods performed the Vaisvasrija sacrifice extending over one thousand years. Finally the praise is recorded that one who performs it attains to Sāyujya, Salokatā, Sārshtitā and Samānalokatā with Brahman. These are the new terms which had arisen describing the final beatitude to be obtained by the Vedanta philosophy, terms, however, used later in a lower sense, as the idea of being Brahman oneself had not probably yet been conceived.

From the above details of the contents of this Brāhmaṇa dealing with sacrifices from the lowest the fortnightly, to the highest the thousand years one (Sāyana), we can with tolerable accuracy settle the age of it. The Brāh-

mana consists of three Kandas, the two first forming the older portion and the last three prapathakas 10, 11 and 12 of the third Kanda being the latest additions and said to be taken from a Katha Samhitā not yet before us. The older portions being later than the old portion of the Satapatha, the date of which we take to be 3000 B. C., that portion may be taken to be about 2800 B. C. To fix the date of the latest portions we have two data. First the Atharvayeda is not formulated yet as a Samhitā. In Kānda III 12, Atharvangirasah generally are mentioned with Rik, Yajuh and Sāman and with Itihāsa, Purāna and Sarpadevajanavidyā (Anuvāka 8). In Anu. 9 the east is assigned to Rik, the south to Yājuh, the west to Atharvangirasah and the north to Saman; but in the next sentence they are omitted. Here the words Rigveda, Yajurveda and Sāmaveda are clearly used. We, therefore, can say that this portion is earlier than the Chhandogya Upanishad wherein the word Atharvaveda appears first, supplanting the compound Atharvangirasah. It is interesting to note that Sāmaveda is always now treated as higher than the other two, as it is next stated that Mürti (body) is born of Rik, all gati (motion) is derived from Yajuh and all light (Tejah) is derived from Sāmaveda: again Vaisyas are born from Rigveda, Kshatriyas from Yajurveda and Brāhmanas from Sāmaveda. The second data is furnished by the names of months. They are

still not Chaitra, Vaiśākha and so on. S. B. Dixit has shown that these month-names arose later, the Vedic names being Madhu, Mādhava and so on and that the conjunctions with the full moon in Chitra etc. on which they are based indicate that they must have arisen not later than 2000 B.C. This fact we will dilate upon later, but we may take it that the third Kanda which is so full of all sorts of astronomical names and which cannot but have mentioned the names Chaitra. Vais'akha etc., had they existed in its time, must be placed before 2000 B.C. The whole of the Taittiriya Brāhmana may consequently be looked upon as later than the Satapatha and earlier than the Chhandogya Upanishad and taking their dates as settled by Dixit, this Brāhmana may be assigned a period ranging from 2800 to 2500 B. C.

Before concluding, we may notice a few interesting social facts which can be gathered from this Brāhmaṇa. One is first bewildered at the number of sacrifices described and the multiplicity of ritual and of mantras to be recited by the Hotri and by the Adhvaryu in answer (the puronuvākyā and the yājyā). But it must be remembered that the Vedas were learnt by heart by almost all the Aryans and they all kept the sacrificial fire and performed the ordinary daily and fortnightly sacrifices. The Chhāndogya Upanishad in one place records the boast of

Asvapati that in his kingdom there was no thief and no householder who had not kept the sacrificial fire (न मे स्तेनो जनपदे नानाहितामि:). The ritual was, therefore, understood by all and was not ordinarily troublesome. Secondly, the ordinary Dakshinā of a sacrifico was a cow. She is called Vara (boon) in III 12, 5. In higher sacrifices one hundred cows and even one thousand are prescribed as Dakshinā. The country was fit for cow-breeding and the Vaisyas and even the Kshatriyas maintained large herds of cows and bulls. (See description of Duryodhana's herd in the Mahābhārata). In the jungles of the Panjab and of Kurukshetra and Rohilkhand, which are many even now, not only are cows plentiful but they give also plentiful milk. Buffaloes are not mentioned anywhere and people drank cows' milk and used it in sacrifice. Indeed in the Vedas cows and sacrifice go together. year old cow, especially when pregnant, was the best Dakshinā and "secured every blessing": she had a special name Shashtauhi (III 12, 5). Thirdly, the four-caste system was fully established and was duly respected. The Rajasuya sacrifice was for kings and the highest sacrifice Asvamedha was for Kshtriyas alone. It is described in full detail in Prapāthakas 8 and 9 of Kāṇda III of this Brāhmana. It was a Rāshtra, in other words, national sacrifice and Brāhmanas and Kshatriyas joined together for its performance

(8, 4). It proclaimed the independence of the country, the horse being its symbol. When it was let loose, one hundred Rajaputras with the Adhvaryu stood on its east side, one hundred Kshatriyas (not ruling kings) with the Brahman stood on its south side, one hundred Sūtagrāmanīs with the Hotri stood on its west side and one hundred Kshatrasamgrihītris with the Udgātri stood on its north side. The first enabled the king to conquer his enemies, the second made him unassailable, the third made his subjects prosperous (the prosperity being described in detail as plenty of cows, of horses, of sheep and goat, of rice and yava, of Masha and Tila, of gold, of Hastika, of servants, of wealth and jewels); and the fourth gave the king long life (III 8 & 9).* This shows well how the Aśvamedha was really a national sacrifice and how the three castes stuck to their professions, the Kshatriya warriors, the Brāhmana priests,

* शतेन राजपुत्रे: सहाध्वर्यू राज्यं वा अध्वर्युः क्षत्रं राजपुत्रः। शतेन राजमिरमेः सह ब्रह्मा। बलं वे ब्रह्मा बलमराजोमः। शतेन स्त्रमामणीभिः सह होता। अयं राजास्ये विशः बहुन्वे बहुश्वाये बहुज्ञाविकाये बहुन्नीहियवाये बहुमा-षतिलाये बहुद्धासपुरुषाये बहुह्मस्त्रिकाये रायमत्ये पुष्टिमत्ये बहुरायस्पोषाये राजा-स्त्वित। भूमा होता। भूमा स्त्रमामण्यः। ...शतेन क्षत्रसंगृहीतृभिः सहोद्गाता। आयुः क्षत्रसंगृहीतारः. Compare with this the earlier S'atapatha provision: तस्येत पुरस्ताद्रक्षितारः उपक्लसा भवन्ति राजपुत्राः कविनः शत्र राजन्या निषक्षिणः शत्र स्त्रमामण्यां पुत्रा इषुवर्षिणः शत्र क्षत्रसंगृहीतृणां पुत्रा दिण्डनः शतं XIII 4,1,15. Ugra is not mentioned here. Sāyana explains क्षत्रम् as क्षत्रारः आयव्ययनियुक्ताः तेषां समृहः

and the agriculturist and merchant Vaisyas. The Sudra was still a servant and impure, not being allowed to milk cows for sacrifice, as the milk was not a fit oblation (अह निरेव तदित्याह:। -यच्छ्रदो दोग्धीति III 2,3,9; Kunte p. 253). From the above description, which is nearly the same as in the Sathapatha, we also find that the warrior caste had begun to be split into two classes, those entitled to rule and called Rajaputras (the word Rajaputra thus is as old as the Brāhmanas) and those not entitled to rule and called Ugras. The people of the third caste, the Vais'yas, are named Sūtagrāmaņīs; the latter word in this compound name plainly means the Patels of villages of modern days. But what does Sūta mean and why are the Sūtas allied with Grāmaņīs? Similarly the word Kshattra Samgrihītri is difficult to explain. Sāyana explains Kshattri alone as a mixed caste man born of a Sūdra father and Vais'ya mother; but he interprets Sūta as Sārathi (chariot-driver) and Ugra as S'ura or courageous. It appears that these three words Ugra, Sūta, and Kshattri had not yet attained the meanings they later attained as indicating certain mixed castes. We may here draw the attention of the reader to the omission, previously noticed, of the last mantra in the Vājasaneyi Samhitā, Adhyāya XXX, which details the victims for Purushmedha, in this Taitirīva Brāhmana Kānda III, Prapā. 4 where the

same Purushamedha is described: this mantra (मागधः पुंश्रली कितवः स्त्रीबोऽशूद्रा अन्नाह्मणास्ते प्राजापत्याः V 30, 22) states that the Magadha and some others should neither be a S'udra nor a Brāhmana. We have already shown that this condition plainly shows that Magadha is here not a mixed caste man but merely a panegyrist who might be of any of the four castes. It shows that in the days of the Vājasanevi Samhitā, the mixed castes had not yet come into existence. The omission of the mantra in the Taittiriya Brāhmana might perhaps indicate that mixed castes had come into being by its time. Probably, however, the omission is unintentional, especially as Ugra, Sūta and Kshatria used here are still not mixedcaste men. It may, therefore, be inferred that mixed castes had not arisen even in the days of the Taittirīva Brāhmana.

These mixed castes arose later in the same way as the four castes in the beginning, from occupations becoming hereditary. The occupations of charioteers, panygyrists and so on becoming hereditary and the idea of purity of caste gaining strength, the children of higher caste men from lower caste wives were first assigned certain occupations and these gradually formed mixed castes which were assigned the old names Ugra and others.

In the above Hastika is not elephant; for elephants can only be maintained by kings and

not villagers. It is, however, strange that in the Brāhmaṇas, there is no mention of elephants in the army of kings or in the descriptions of their power and splendour. The Kshatriya is always a car-warrior, like the ancient Trojan or Greek. Probably elephants came in later in the Magadha empire; they were not much found in the Panjab or the Himālayan jungles adjacent to it. The elephant was found in plenty in the jungles of Bengal, the Vindhyas and Aparānta or north Konkan with its dense Sahyādri forests. The Mahābhārata in one place praises the Aparānta elephant as the best.

Finally women were, we find, well-treated and had certain rights. For every sacrifice required the sacrificer's wife to sit along with him. Their presence was not only not prohibited but was necessarily required as that of the king's or governor's consort on ceremonial occasions in modern days. Widowhood was much feared and the blessings invoked on the sacrificer's wife included a wish that she might never be a widow. Ornaments for women were much prized and the priests liked ornaments of women being given them as Dakshinā (III 10, 4).

The Brahmins had frequent centroversies on questions of ritual and philosophy and particular sacrifices enabled them to conquer their adversaries in disputations. More usually, however, almost every sacrificer wished to destroy "him.

who hated him or whom he himself hated" योऽस्मा-न्द्रेष्टि यं च वयं द्विष्मः तं वो जम्भे दधामि. The Indian Arvans were strong in their feelings of enmity. Most often the enemy is called a Bhrātrivya (cousin). How this word came to be used in Brāhmanas in this sense it is difficult to explain. Perhaps the enmity between the Iranians and Indo-Aryans who were cousins gave rise to this use. But probably this word attained this meaning owing to the enmity which naturally arises in an undivided family between cousins over ancestral property and which is often very deadly as in the Mahābhārata quarrel. The undivided family system certainly existed among the ancient Indo-Aryans as it exists today with its beneficial as well as baneful results. It is hinted at in the marriage sukta of the Rigveda (X 85). But it assumed an evil aspect when the country was settled and there was no room for expansion.

The roots of many Puranic stories lie embedded in the Brāhmaṇas and even in Rigvedic hymns. The Kālakañja Asuras are thus mentioned in this Brāhmaṇa (I.). Prajāpati assuming the form of a boar dived below the primeval waters and brought up the earth (I. 2), a story which gave rise to the Boar Incarnation legend of the Purānas. In the Rāmāyaṇa we still find Prajāpati and not Vishṇu, assuming the form of a boar. Many similar traces of Puranic stories may be found on a critical examination of this Brāhmaṇa.

Note 1:- Dakshina or Presents to Priests.

The Rigvedic hymns belaud presents to Brahmins or rather sacrificing priests and the Brāhmanas do the same to a greater extent. European scholars, not understand--ing the real nature of these payments, look on Dakshinā as a sort of tip or even bribe given to the Brahmins and hence look upon these statements in the hymns or the Brāhmanas as proclaiming the selfishness or greed of the priestly class. To understand, however, the real nature of Dakshina as the deserved fee for services rendered with efficiency and great toil, one must translate oneself to the Vedic times when sacrifice was considered as a prime necessity and not a useless or unmeaning, unnecessary or unreal religious ceremony. was a mistake of Brahmins that they left their services at such sacrifices to be paid for voluntarily. It must be remembered that religious service has to be paid for in every country and in every religion. The method of payment in the western countries under Christianity was and certainly is more practical and straight. priests are paid fees normally and not as a matter of grace but as a right in the form of fixed salaries out of rates assessed methodically and realised like Government And these payments of priests and bishops and archbishops are more exhorbitant in reality than Dakshinās given to priests even in ancient or Vedic times, not to speak of those paid in modern days. Indeed, one will never come across a Brahmin priest in modern India who lives upon these Dakshinas even a tolerably easy life, much less a sumptuous one as is lived by bishops and priests under Christianity or Moulavis and Kajis under Mahomedanism. The Indian priests were and are a poor set of people who eke out a half-starved livelihood from these fees. We never see or read of any Brahmins who have grown rich on Dakshinās. Indian history from the most ancient times never furnishes instances of Brahmins, grown lordly by Dakshinās or gifts, as Christian history does. There were in Europe bishops owning extensive lands and becoming thus lords and even princes. On the contrary, in India we read of even learned Brahmins as being famine-stricken, as in the Chhāndogya Upanishad.

When a man like Yājñavalkya fought for half the Dakshinā payable to the Yajurveda, he was not fighting tor a moiety of alms but for half of what was due. The duties of Hotri, Adhvaryu, Udgātri, and Brahman at a superior sacrifice like the Rajasuya or Aśvamedha were onerous and required a deal of toil and proficiency, acquired by a life-long study. Their duties may well be compared to the duties of Ministers and the Brahman had to perform the duty of the President of a modern Council. He had to watch over and regulate the performance of the sacrifice and to give his ruling on every question of 'in order' or 'out of order' that arose. If Ministers and Presidents of Councils require to be paid high salaries, it is really unthinkable why we should look down upon the large Dakshinas paid to these sacrificial priests or wonder that the Brāhmanas do not omit to mention what constitutes the priest's payment at every sacrificial act. The pay of the President or Minister must be known before and cannot be left to be decided by the caprice of Government as a sort of Bakshis or a kind of payment made out of generosity.

The matter will be clearer when we consider how Brahmin teachers taught all Aryan boys at their house and even gave them free boarding. The Guru-Dak-

shinā or teaching see which they asked for at the end of the whole course was at the lowest fixed at two cows. Compare with this the fee which modern systems of education demand and demand in advance every term or month and which for the total course would amount to the value of several hundreds of cows. It is therefore necessary to give a caution to the reader not to be misled by remarks about the avariciousness of Brahmins in their demand for Dakshinā, made by certain Indian writers even, not to speak of European writers, who have not sufficient knowledge of the real condition of the priestly Brahmins in India, whether in ancient or modern times. It cannot be said that Brahmin priests were at any time exorbitant in their demands or that they were more handsomely paid than they deserved, or that Dakshinā was Bakshīs paid informally.

Note 2:- Astronomical Information in T.B.

There is a deal of astronomical information in the Samhitas and Brahmanas of the different Vedas; but much of it is found in the Taittirīya Brāhmana and we summarise the information given in detail by S.B. Dixit in his unique work on the "History of Hindu Astronomy" in its first or Vedic section. Every ancient people must have marked the phenomena of day and night, full moon and new moon, spring and winter. The first is the basis of the day, the second of the month and the third of the year (R. I 95-3). But as a fixed number of full days does not constitute the lunar month, nor of lunar months the solar year, owing to the inequality and eccentricity of the motions of the sun and the moon, intelligent nations alone could make progress in astronomical knowledge by carefully watch-

ing the motions of the sun and the moon through the stars.

The Rigveda hymns frequently speak of 12 months and 360 days in the year or 12 spokes and 360 knobs in the wheel of time (R. I 164-11 and 48). For longer periods than the year we have the word Yuga appearing frequently in the Rigveda and divine Yugas and human Yugas are differentiated, (R. VI 8, 5), the latter probably consisting of the usual span of human life. The four Yugas also probably appear to have been known as R. X 97-I speaks of three Yugas, each Yuga being perhaps of hundreds of years. Krita, Tretā, Dvāpara and Āskanda or Kali are names found in the Taittirīya Samhitā (IV 3-2) first and then in the Vājasaneyi Samhitā (XXX-18).

The Yuga of 5 years invented for equating the lunar months with the seasons appears also to be probably as old as the Rigveda. The five names of the five-Yuga years, Samvatsara, Idavatsara, Iduvatsara etc., however appear clearly in Vajasaneyi Samhitā (XXX-18) and following it in the Taittirīya Brāhmaṇa (III 4), where the victims for Purushamedha are described.

Two months must have been added to sixty lunar months of five years each in order to make five solar years, and it is probable that Adhimāsa is mentioned even in R. I 25-8. The Taittirīyā Samhitā mentions the names of the 12 months of a year as Madhu and Mādhava, S'ukra and S'uchi, Nabha and Nabhasya, Isha and Ūrja, Sahas and Sahasya and adds two more as Samsarpa and Amhaspati (Vajasaneyi Samhitā XXI-30-34 gives the names Malimlucha and Amhaspati for the names in the other Samhitā). These month names are based on seasons, the last two being the names of the two months which were added in five years. Sāyana is wrong when he thinks that Amhaspati is the name of the

Kshaya Māsa or the month eliminated. This idea of the elimination of a month came in much later than even the Vedānga Jyotisha, in Sidhānta times. Whether two months were originally added at once or at different times as in Vedānga Jyotish is not clear. Whatever the case may be, the two names are still required for the two months.

The Taittiriya Brahmana (III 8-3) refers to this extra month as the hump of an ox, the year being compared to an ox and the 13th month, an excretion, to its The seasons are usually six as they are experienced in the Indo-Aryan land, viz. the Panjab and the Kurukshetra (IV 4, 11). But sometimes five seasons are also mentioned in the Samhitas and in the Brāhmanas. This probably is a reminiscence of the seasons in the Arctic regions where the sun remained below the horizon for two months. The year is often compared to a bird, of which the head is Vasanta, the left wing S'arad, the right wing Grishma, the tail the Varshā and the body Hemanta (III 10-4-1). The sixth season S'isira is to be included in Hemanta as is expressly stated in many places (e. g. A. B. 1,1) where five seasons only are to be taken for the year. The Romans had ten months only and their year began with Similarly among all old Aryan peoples the year was first of 10 months and began with Vasanta.

In the Indo-Aryan land, India, the sun always remained above the horizon; but its course northwards and southwards was markable and the Dakshināyana was considered inauspicious as in Arctic regions. The Vishuvan day was also clearly known and called Divā-kīrtya (T. B. I 2-4). It is in the midst of the year and certain Sāmans were to de recited. The day joined the northern six months with the southern. The Vedic Uttarāyana was thus different from the modern.

as it meant the six months Vasanta, Grishma and Varshā and not Hemanta, Vasanta and Grishma.

As additional months were to be added to equate the lunar months with solar years, so also some days had to be omitted to equate the lunar month with the rough month of 30 days. A day had to be omitted every two months. There seems to have long raged a controversy over this question, namely, whether a day should be omitted or not as appears clear from the Utsrijyā Anuvāka (T. S. VII 53 उत्मृज्यो नोत्मृज्यामित सीमासन्ते नज्ञवादिन:). There was a difference of opinion also as to whether a month should begin with new moon or full moon. Some began the month with the full moon, called hence Purṇamāsī (T.S. I 6-7), and some with the new (T.S. VII 5, 11). This difference of opinion still exists in India.

There is, however, no doubt that the phenomenon that the moon was full in certain Nakshatras only was marked. The Chitra Purnamasi, the Phalguni Purnamāsī etc., are mentioned in the Taittirīava Samhitā and Brāhmana. But it is remarkable that the names of months based on these conjunctions, viz., Chaitra, Vaiśākha etc., had still not arisen. Dixit has pointed out that these names first appear in S'atapatha Kānda XI. which is a later Kānda (XI 1, 1, 7), in Kaushītaki Brāhmana (XIX 23) and in Panchavimsa Br. (V 9.9). These names of course do not occur in any of the Samhitas but they are also not found in the Taittirīva Brāhmana in which the names Madhu, Mādhava etc. frequently occur. We should expect the names Chaitra and others in this Brāhmana if these names had arisen by its time. According to Dixit, these names must have arisen some time between 2900 B. C. and 1900 B. C. though a more approximate estimate cannot be given (Dixit p. 132). This is a strong argument to hold that the Taittiriya Brāhmaņa is older than the XI Kāṇḍa of the S'atapatha, and the Panchavis'a and Kaushītaki Brāhmanas.

In the Taittiriya Brāhmana, we find many other astronomical data such as the divisions of day into 3, 4, and 5 parts, the last being Pratah, Samgava, Madhvānha, Aparānha and Sāyānha (T. B. I, 5-3). See also (S'ata. 2 Br., 9.). The Atharva Samhita. IX 6, 46 states "At sun-rise the Sāma-singer hums (हिंक्रणोति), at Samgava he praises (प्रस्तीति), at mid-day he sings aloud (उद्रायति). in the afternoon he sume up (प्रतिहरति) and at sun-set he finishes his song (निधनम्)". These different parts of singing can only be well understood by a Sama-singer. The division of day into 15 Muhūrtas and of night into other 15 Muhūrtas is not only mentioned in the Taittirīya Brāhmana but different names are also assigned to all these 30 Muhurtas (III 10,1,2). Nay different names are assigned to the Muhūrtas in the bright fortnight and the dark fortnight (III 10,1,2, and 3). There is a still minuter division of Muhurtas into secondary or Pratimuhūrtas (III 10,1,4). It is impossible that all these minute divisions and their names should have been in general use. Very probably they are niceties known only to Vaidika astronomers. These names went out of use in later times and are not found in later astronomical works (Dixit page 50).

We now come to the most important astronomical topic, viz. the Nakshatras. Stars generally and then Nakshatras must have been watched in Rigvedic days and in Rigvedic hymns we have the words Nabhas, Rochana and Strī, besides Nakshatra itself, used for stars generally (R.X 68, II 34,2, IV 7,3, X 85, 2). Nakshatra, however, is a word applied usually to those stars near which the moon passes and these were given names in very early times. They were looked upon as 27 in

number. Some names appear even in the Rigvedasuch as Maghā, Phalgunī (X 95), or Aghā and Arjunī. But the Taittiriya Samhita in one Anuvaka recites all the 27 Nakshatras with their presiding deities beginning with Krittikās (IV. 4, 10). In the Taittirīya Brāhmaņa (I. 5), the same information is repeated with further unintelligible details as to what precedes and what follows each Nakshatra. The connection of Phalguni or Arjuni with marriage and the sending of bridal presents mentioned in Rigveda X 85 is hinted at here also. In the later Kanda III, still further particulars are mentioned about these 27 Nakshatras and many etymologies are given of their names, which, often fanciful, are yet more often connected with real astronomical facts upon which these names may have been originally given (VII 1, 1 and 2). The different merits of sacrificing on different Nakshatras are also mentioned. It is important to remark that some Nakshatra names are feminine and some neuter; some are singular in number and some are dual and some plural. There are thus one, two or more stars counted. in each Nakshatra

In the Taittirīya Brāhmaṇa (II 7. I8, 3), the derivation of the word Nakshatra is given as "not Kshatra", which is fanciful. In another place (1, 5, 2) it is stated that stars were called Tārakās, because they floated (अत्रत्) over the primeval waters in the sky. The Nakshatras are houses of gods and they are called sobecause people who sacrifice go (तक्ते) there. The derivations of the names of the several Nakshatras are given diversely in diverse places in the Taittirīya Brāhmaṇa, some of which, as stated above, are fanciful but others are convincing. (Indeed Punarvasu, Chitrā, Maghā and Revatī are names which occur in, the Rigveda meaning wealth). In a following sentence, the

*famous story of Rohinī and Prajāpati is hinted at and the star is said to have ascended into the sky and hence called Rohinī (1 1, 10). In another place it is explained that Rohas or desires (***III:) are fulfilled by sacrificing on Rohinī and hence that name (I, 1, 2). In the fifth Anuvāka of the same Kāṇḍa, explanations of the names Jyeshthā, Hasta and Chitrā are given (I 5, 2) and these with Viśākhā and Anurādhā are said to form the Nakshatra-Purusha.

From their singular number the following stars are singular viz., Rohinī, Ārdrā, Tishya, Svātī, Jyeshthā, Mūla, S'ravaṇa, S'atabhishak and Revatī. From their dual number Punarvasu, the two Phalgunīs, Vishākhā and Aśvayuj are of two stars each. The rest are plural and their names are used in the plural number. In the third Kāṇḍa, which delights in assigning names to minute things, we have the stars of Pheiades (Krittikās) taken as seven and each of these is given a separate name (III 1, 4); S'ravishṭhā (चतसो देवीरजरा: अविष्ठ:) and Proshṭhapadī (Uttarā Bhadrapadā) are stated to consist each of four stars (III 1. 2).

Rigveda (I 24, 10) refers to the Saptarishis which appear high up in the heavens (about the North Pole) and it also mentions the two dogs (X 14, 1). These two are also mentioned in the Taittiriya Brāhmaṇa (1, 1, 2). Rigveda (V 40) refers to a total eclipse of the sun and how the Atris recovered the sun from the darkness of the Asura Svarbhānu (Rāhu). There is no reference to an eclipse of the sun in the Taittirīya Brāhmaṇa, though there are five in the Tāṇḍya and one in the Gopatha. The S'atapatha also speaks of Rāhu enveloping the sun and of Soma and Rudra securing him (V 3, 2, 2). This can hardly be made a basis for determining the date of the Taittirīya Brāhmaṇa in reference to the other Brāhmaṇas.

Of Tithis, like Pratipadā, Dvitīyā etc., the Brāhmaṇasdo not speak. It is likely that the conception of Tithis, irrespective of the Savana day, had not arisen. nor was the calculation of Tithis, based on the distance of the moon from the sun, easy. The fifteen days and nights of the bright fortnight and of the dark fortnight were, however, given different names which are mentioned in the third added Kanda of the Taittiriva Brāhmana (III, 10, 1, 1). That these sixty names are mostly imaginary and that they were probably not in much use will appear from the fact that these names have disappeared except Pürnamäsi which with Amavasya are names of nights and not of Tithis as at present. Ashtakā is a name given to the middle night of the dark fortnight which shows that it had a special importance. There were twelve Ashtakās in the year as well as twelve Purnamāsīs and twelve Amāvāsyās (T. B. I 5. 12 and III 11, 1, 19). The Ashtakā is mentioned. in the Aitareya and Tāndya Brāhmanas also.

Jyotisha and its calculations seem to have incurred popular disfavour as also medicine and medical practitioners, why one fails to see. Among the victims at the Purushamedha we find the watcher of stars and astronomical calculator, Nakshatra-darsha and Ganaka, both in the Vājasaneyī Samhitā (XXX 10 and 20) and in the Taittirīya Brāhmana (III 4, 1). Perhaps they are offered, not because they were hated but because they were pleasing offerings to the stars. In Taittiriya Brāhmans, Kānda III (10,9) certain astronomers of Vedic times are mentioned, viz, Janaka Ahīna, son of Aśvattha, Devabhāga S'rautarsha and S'usha Vārshneya. The science of astronomy progressed as it was a recognised subject of study, Nakshatra-Vidyā being mentioned in the Chhandogya Upanishad among thesubjects studied by Nārada.

IV INTERMEDIATE BRAHMANAS

The Satapatha is the oldest Brāhmana though its Veda the White Yajurveda is later than the Black Yajurveda. This Brāhmana was followed by the Taittiriva Brāhmana of the latter Veda. To its two other S'ākhās, viz. the Katha and the Maitrāyanīya, we should expect their Brāhmanas to be attached. But they never came into being or they have not survived. The Brahmana of the Maitrāyanīya Samhitā is said to be mixed up with that Samhitā as the Black Yajurveda Samhita of the Taittirīvas also contains Brāhmana portions. As to the Kathas, the last three chapters of the Taittirīya Brāhmaṇa, Kaṇda III, viz. chapters 10, 11 and 12 together with the first two chapters of its Āranyaka are known as Kāthakas and are hence presumably taken from the Katha Samhitā or its Brāhmana. The Maitrāyanī and Kāthaka Samhitās have been printed; but we have not scanned their contents. It may however be presumed that these do not much differ from those of the Taittiriya Samhitā or Brāhmana. To the Sāmaveda are attached two important and extensive Brahmanas, viz. the Tandya Mahābrāhmana and the Talavakāra or Jaiminīva Brāhmana. The latter consists of five books,

including the Aranyaka and Upanishad portions. The first three Kandas relate to sacrifices, the fourth is called the Upanishad Brāhmana and the ifth, called the Arsheya Brāhmana, gives a list of the Rishis of Samaveda and is thus, in effect, an Ārshānukramanī for this Veda. The Tāndya Brāhmana is also called Panchavims'a from its twenty five chapters and deserves, by its length, the name Mahābrāhmana. Its contents are historically important as it contains a minute description of the sacrifices performed on the banks of the Sarasvatī and the Drishadvatī, the rivers which form the two boundaries of Kurukshetra. It also contains the description of a Vrātyastoma or sacrifice for the purification of Vrātyas or Aryans devoid of Vedic rites. The story how Tandi, a Rishi, propitiated Siva by reciting his thousand names is related in Mahābhārata XIII. chapter 14. His son Tandya is mentioned as a Devarshi sitting in Deva-Sabhā (II,7, 294). He is also mentioned as a Sadasya of King Uparichara and as having praised Vishnu (XII,337). Whether this Tandya is the author of the Mahabrahmana or a descendant of his is a question. The historical and geographical information derivable from this Brāhmana deserves to be collected. There is a Shadvim'sa Brāhmana which by its name forms its supplement. In the last six sections of it, called Adbhuta Brāhmana, sacrifices to obviate the evil effects of extraordinary

shaking &c. of images of gods are given. This is plainly a very late addition. For image worship most probably did not exist in the Samhitā or Brāhmaṇa period. Such evil signs are recorded in the Mahābhārata (XVII) also when the Yādavas were about to destroy one another. Image worship was firmly established at that time, but it existed before Buddha also and is hinted at in Pāṇini's sūtra वास्टेबाईनाम्बर्ग कन्. Thus this late addition may have been made even before Pāṇini and certainly before Buddha.

There is a Chhāndogya Brāhmaṇa also attached to the Śāmaveda, the last eight lessons of which form the well known Chhāndogya Upanishad. Other Brāhmaṇas of this Veda are Sāmavidhāna, Devatādhyāya and Vaṁśa and are in the nature of Anukramaṇīs giving the Viniyoga, the Devatās and the Rishis or teachers of Śāmaveda. We shall speak of these and other minor Brāhmaṇas in detail in a note.

As to the date of the Tāṇḍya Mahābrāhmaṇa it is even in its earlier parts later than the Taittirīya Brāhmaṇa. It is an extensive Brāhmaṇa and gives many details of the sacrificial system now fully developed. It opens thus with the varaṇa or election of priests for Agnishṭoma sacrifice (not given in any Brāhmaṇa) made with great formality and the fee demanded by the Hotri is given as one hundred and twenty cows

(Haug). Fees are indeed prescribed by this Brāhmana as a rule as Vakils' fees are prescribed by rules in British India. Fee was, however, not taken in advance as Vakils' or doctors' fees are taken, which again are more exhorbitant than those demanded by the priests of the Tāndya Brāhmana for performing tedious and onerous sacrificial duties. For, the price of a cow given as Dakshina has been fixed at one rupee and a quarter and one hundred and twenty cows mean in modern currency only one hundred and fifty rupees. Considering the labour and the knowledge and education demanded of the Hotri and other priests this remuneration does not seem to be excessive. But this aspect apart, we find from the Taittiriya Brāhmana, as already noticed, that fees were never settled before and that they ranged from one cow to one thousand according to the liberality and ability of the sacrificer. This shows how the latter Brāhmana is older than the Tandya. Cows, it may be noted by the way, represented the medium of exchange in those days, as corn did in India even down to the British times.

The lateness of the Tāṇḍya or Pañchavimśa is also proved by the fact that the names of months like Chaitra, Vais'ākha &c. are found in it, as noted before, and they are not found in the Taittirīya Brāhmana. As pointed out by Dixit, it even mentions Udagayana as falling in the beginning of

Māgha and hence the date of this portion, he thinks, comes down to a little before the date of the Vedānga i.e. 1400 B.C. We will, however, discuss this view in a note along with a similar statement in the Kaushītaki or Śāńkhāyana Brāhmaṇa.

We next come to the Brāhmanas attached to the Rigveda. That these were numerous we have already seen from Āśvalāyana's Grihya Sūtra Tarpanavidhi. But only two of these have survived, viz. the Kaushītaki and the Aitareva. The Kaushītaki Brāhmana is also called Śānkhā. yana; but from the above Tarpana details, Kausītaka is a different Āchārya from Śānkhāyana; it may, therefore, be inferred that the original Kaushītaki Brāhmana has been lost; there is no Sūtra of that name and we have a Sānkāyana Sūtra extant; hence the present Kaushitaki Brāhmana is really that of Śāńkhāya-There is another indication, viz. that the Brāhmana of Kaushītaka is called Kaushītaki and it is thus an old Brāhmana, according to the rule of Pāṇini (पुराणप्रोक्तेषु बाह्मणकल्पेषु) like Śātyāyani and Bhāllavi. The name Śāṅkāyana, however, does not take this suffix and it is a newly enunciated Brah-The present Kaushītaki alias Śānkhāyana Brāhmana is a late Brāhmana again from its mentioning the new names of months, Chaitra &c. (see Kaushī. XIX 2, 3). The Brāhmana mentions the names Isana and Mahadeva of Siva, and hence it is argued by Weber that "it was composed at about the same time as the latest books of the White Yajurveda and those parts of the Atharvaveda and the Satapatha in which these appellations of the same god are found" (Macd. p. 206). But this inference is unsound as the occurrence of those names may also and probably does indicate a later date for the former. Macdonell mentions that the Tāṇḍya Brāhmaṇa followers were at feud with the Kaushītakins. Though their Vedas were different, they came into conflict as the Hotri and the Udgātri came together at sacrifices. This shows that the division of Brahmins according to different Vedic sūtras had not yet arisen.

The Kaushītaki Brāhmana is divided into thirty chapters and the Aitareya into forty, indicating that the latter is later than the former. Both these were known to Pānini (see his sūtra त्रिंशचत्वारिंशतोबीह्मणे संज्ञायां डण् V. 1,62). In the list of $ar{\mathbf{A}}\mathbf{cha}$ ryas given by Ās'valāyana, Kaushītaka comes first, then Śānkhāyana and then Aitareya. thirty chapters of the Kaushātaki treat of Agnyādhāna, Agnihotra, Darsapūrnamāsa and Chāturmāsya, and then the Soma. "The more detailed and methodical treatment of the ritual in the Kaushītaki would indicate that it was composed at a later date than the first five books of the Aitareya. But such a conclusion (it is added) is not altogether borne out by a comparison of the linguistic data of these two works' (Macd. p. 206).

It seems, therefore, that even according to Macdonell, the Kaushītaki may be treated as older than the Aitareya, though some parts of the former (such as XIX), mentioning the later names of months, may be of a date later than that of the Taittirīya Brāhmana.

The priority of the Taittiriya Brāhmana and also of the Satapatha as compared with these intermeditate Brāhmanas is evidenced by an interesting fact. The Rishis in the oldest times of the Samhitas were looked upon as the authors of their hymns, being usually compared to carpenters fashioning beautiful cars. In the days of the Taittirīya Brāhmana they were probably still looked upon as the authors of mantras (यामृषया मंत्रकृतो मनीषिणः। अन्वे-च्छन्देवास्तपसा श्रमेण ॥ II 88). Later the hymns became divine revelations so completely that the Rishis were looked upon as their seers, i. e. as having seen the eternal mantras. The expression अपस्यत consequently is always used in these intermediate Brāhmanas. For example Kaushītaki has पुतत्कव-षः सक्त (RX, 30) मपश्यत् पंचदशर्चम् . Aitareya III 19 has 'Gauravīti, the son of Śakti, saw this sūkta' (RX, 73). Tāṇdya IV, 7,3 has 'इन्द्रं कतंन आ मर' (RVII, 32, 26), वासिष्ठः पुत्रहृतः अपश्यत्. Sāmans also are looked upon as seen; not only the verses but the mode of singing them also.

The question whether Kaushītaki alias Śāṅkhāyana is earlier than Aitareya or Aitareya is earlier is not difficult to decide. Keith looks upon

Aitareya as earlier and treats the mention of Kaushītaki in A. B. VII 11 as an interpolation, a suggestion for which there is no sufficient ground., At least, Aitareya as we have it is later than Kaushitaki. But the Śānkhāyana Brāhmana also quotes Kaushītaki very often. It is true that an author often mentions his own name in his own work; especially on disputed points he gives his own opinion as the final opinion. Yet the mention of Kaushītaki may raise doubts. Kaushītaki III 1, on the question of fasting, quotes Paingya for one view and for the other view quotes Kaushītaki. In Aitareya (VII 11) on the same question Paingya and Kaushītaki are similarly quoted. But in a note here Keith in his translation says "this is a mutilated and partially unintelligible version of K.B. VII; cf. Weber". This means that A. B. quotes from K. B. and is thus later.

The methodic and concise treatment of the Kaushītaki is contrasted by Keith with the discursive and extended treatment of the Aitareya, as also the use of perfect as a narrative tense; and these are looked upon as showing the priority of the Aitareya. But these are the peculiarities of individual authors. Some authors are methodical and concise while others of the same time are verbose and diffuse. Some like archaic expressions while others use simple and modern language. These differences cannot, we think, establish priority or posteriority. It may be noted

that Ās'valāyana Grihya Sūtra mentions three extended Brāhmaṇas, Mahākaushītaka, Mahāpaingya and Mahaitareya. It is possible that S'āṅkhāyana has edited and condensed the first and the present Aitareya may be a condensed form of both old Aitareya and Mahaitareya. But there is no doubt that Āṣvalāyana Grihyasātra treats Kaushītaka as the older Āchārya.

Note 1:- The names Kaushitaki, Aitareya, Note Tandya, Taittiriya and others

The names of the two Rigveda Brāhmanas are usually given as Kaushītaki and Aitareva. The former quotes the authority of Kaushītaki every now and then and this is not strange, as stated already. The name of the Achārya, therefore, is Kaushītaki without doubt, probably being an Apatya of Kaushītaka. The name of the Brahmana, written by Kaushītaki, should, therefore, be Kaushitaka according to Panini's general rule तेन श्रोक्तम्. This form is actually used in the S'ankhāvana Brāhmana in III. along with Paingya (पेंड्रचेन श्रोक्तं पेंड्रचम्). As to Aitareya! the name according to Kāshikā should be Aitareyin as per sutra प्राणप्रोक्तेप बाह्मणकल्पेषु under which this Panini's form is given. The name Tandya for the Brahmana may be derived as ताण्ड्येन प्रोक्तं ताण्ड्यम्. For the name Taittiriya, there is a special sutra of Panini तिचिरि-बरतन्तुखाण्डिकोखाच्छण् (IV 3. 102.) &c. The author of the Taittiriya Brāhmana is, therefore, Tittiri,

The name Kaushītaki should be, we hold, Kaushītaka, though as a compound word Kaushītaki Brāhmaṇa would be correct. As to Aitareya, the form Aitareyin is not used in any ancient work and the authority of the

Kāshikā is not decisive; we need not, therefore, hold that Aitareya is a প্রাণয়াক, though the examples given by Bhaṭṭojī, viz. S'ātyāyanin and Bhāllavin are correct, these forms being found actually in Tāṇḍya and Sāmavidhāna Brāhmanas.

Note 2:- Mention of Tandya in S'atapatha

S'atapatha in its old portion (VI 1, 2, 25) mentions Tandya 'अथ ह स्माह ताण्ड्यः'. This makes Tandya earlier than S'atapatha no doubt; but the Tandya here mentioned need not be, indeed cannot be, the author of the Tāndya Brāhmana. We know from M. Bh. that Tandya was a great sage; and that he gave his name to his descendants who are all Tandvas. The Acharva, here referred to, must be earlier than Yajñavalkya, who was sister's son to Vaisampāvana, pupil of Pārāsarva Vyāsa. From the Vamsa given at the end of the Samavidhana Brāhmana, Tāndya, the probable author of the Tāndya Mahābrāhmana, was pupil of Bādarāyana, pupil of Pārāśaryāyana, pupil of Paushpindya, pupil of Jaimini. pupil of Vyāsa. Yājñavalkya is thus third in descent from Vyāsa and Tāudya is sixth. Yājňavalkya, therefore. cannot refer in his S'atapatha to the Tandya who was. the author of the Tandva Brahmana.

V Further Details about the Tandya Br.

The Tandya Brahmana is mainly concerned with laying down the stomas or praise-songs to be sung at the various sacrifices from the lowest Soma to the highest thousand-year Sattra. mentioning these, stories are related as to who saw these Samans and on what occasion and with what result. These stories are usually imaginary ones; but sometimes they contain historical facts. They relate imaginary sacrifices performed by gods or Rishis or Prajāpati, usually to obtain Svarga or heaven. Even cows are said to have performed sacrifices and obtained horns. Serpents also, as will be noticed later on. performed a sacrifice, to escape early death. The names of the various Sāmans sung at these sacrifices are often strange; but they are mostly given after the person who saw them. word "saw" is invariably used throughout this Brāhmana and shows that the Rigveda and the Sāmaveda were already divine revelations, the verses now being seen and not composed by their Rishis. These names of Samans are thus very old and not first given by the Sūtra-writers. Rathantara, Yajñāyajñīya, Vāravantīya etc. are. however, names older still, their derivations being not given even in this Brahmana; but Abhīvarta, Dyautāna (seen by Dyutana), Gauńgava, Śārkara etc. are names which are well derived from their seers. The name Jarābodhīya is explained as the Sāman indicated by the initial word Jarā (14,5); see also Rohitakūlīya further on. The Sāyaṇa Bhāshya gives the various mantras denoted by these names; from where this information is given by the Bhāshya, it would be interesting to find out.

Several old Vedic Rishis are mentioned such as Bhrigu, Visvāmitra, Atri, Sakti (son of Vasishtha) etc. and the Rishi-gotra system appears to be firmly established. The Kanvas, Vatsa and Medhātithi, are mentioned in 14.6.6. In 18, 9, 5 it is in fact stated that the Hotri at the particular sacrifice should be of the Bhrigu gotra. The Śāktyas or Brahmins born in the Śaktigotra performed a special sacrifice of 36 years (25, 7). The Atri-gotrins are mentioned in 6, 7, 2 where the Rigvedic legend is related that the demon of darkness, Svarbhanu, enveloped the sun in darkness and when the gods went to Atri for releasing him, he by his prayers brought out the sun; wherefore, it is added, the Atreyas are presented with Chandra (which the Bhāshya explains as meaning Hiranya or gold and silver). This phenomenon of Svarbhānu Asura attacking the sun is taken advantage of in more than one legend, such as in 8, 6, 13. Two Vālakhilya verses are referred to in 14, 5,4. Of Brahmavadins (a word often used) or expositors of Vedas, in other words, of Acharyas or composers of Brāhmanas, we find the Bhāllavins (the form used being Bhallaveyas in 12, 2, 8), mentioned as doing the right thing and Kaushitakas mentioned as doing a wrong thing (17, 4, 3). The Kaushitaki Brāhmana seems thus to be older than the Tandya. Trikharva-Śakhīyas are mentioned with respect in 2, 8, 3. The word Śākhā is thus at least as old as the Tāndya Brāhmana. But Brahmins do not yet appear to have been split up into Rigvedins, Yajurvedins and Samavedins who confine themselves to one Veda only for all ritual as at present, since Rigveda seems to be drawn upon even in this Brāhmana. The Agastya sūkta 'Kayā Śubha' etc. (R. I. 165) thus is required to be recited in 10.7.17 and the Sarparajñi hymn in 9, 8, 7. The simple words तदम्यन्ता introduce a quotation from Rigveda in 25.

Indra is the chief god; but he too goes to heaven with the aid of a sacrifice. Prajāpati also creates the world by sacrifice and the help of certain Sāmans. Sacrifice and Sāman are thus supreme. Vishņu, however, is advancing to the highest position as he is identified with sacrifice; the dictum "Yajña is Vishņu", constantly referred to in later times, is found in this Brāhmaṇa also in several places (9, 6 etc.); and the Purusha-sūkta verse "येशन यहनव्यतन्त देवा:" probably does mean that the gods sacrificed to

Vishņu. The Sādhya Devas mentioned in this Rigvedic verse again are described as ancestors of the Devas or their predecessors who obtained heaven by means of a particular sacrifice (25.7). Those who do not sacrifice appear to have been persecuted, as Indra is said to have delivered Yatis to jackals (18, 1). The Bhāshya explains the word "Yati" as meaning those who do not perform Jyotishtoma. It seems, however, that this was a time when the Vedantic philosophy was coming forward but had not yet gained ascendency. Even in the Mahābhārata, Indra is the champion of animal sacrifices.

This Brāhmana almost always prescribes the Dakshinā to be given at each sacrifice. It is usually in the form of cows, so many as one thousand cows being prescribed in one place in three instalments of 333 each time. A horse, black in colour, should be given to the Brahman (18, 1) and soma chamasa (spoon) to a sagotra Brahmin. Strangely enough, the Subrahmanya gets a hegoat only (18, 8). The Gravastut gets a she-calf. Pregnant shashtauhis (four year old cows) are prized as Dakshinā. Gold and silver are also prescribed and apparently nishka was the coin used. Twelve Manas mean twelve coins or gold-dust packets of a particular weight (18-1) and this is the least, the highest being one thousand Manas. The Aryan people were still divided into the

The Aryan people were still divided into the thice castes, Bislmins, Kahatriyas and Vaisyas

(2, 8, 2), and the fourth caste Sudra was also included in the community. But the subjects of the king were all Vaisyas; probably the Brahmins as priests were outside the pale of the king's authority. The Vaisyas sometimes threw out the king as they formed the Rāshtra (or state and not kingdom). In 6, 6, 5 a particular sacrifice is mentioned by which the sacrificing Brahmin could help the Vaisyas (subjects) to destroy the Rāshtra (which Sāyana takes to mean the king). Almost everywhere in this Brahmana 'Vis' means people or subjects who pay taxes. The Vaisyas were entitled to perform sacrifices (18) and their prosperity in cattle was assured. There was no restriction on marriage, though probably the pratiloma marriage was not practised. But the progeny of Śūdra wives was begun to be looked down upon. There is an interesting story told in 14.6, 6 which brings this out. Vatsa and Medhātithi were two Kānvas; the former was upbraided by Medhātithi as a Śudrā-putra or son of a Sudra woman, whereupon he said "let us throw ourselves into fire and see who is the better Brahmin". Vatsa saw a particular Sāman then and singing it threw himself into fire. "But not a hair of his was singed" (तस्य न लोम च नौषत्). This shows that Vatsa was proved to be a full Brahmin though he was a Sudrā-putra and was taunted as such by Medhātithi. The interamediate castes probably arose hereafter in consequence of this feeling of inferiority.

The Vrātyas mentioned for the first time in this Brāhmaṇa offer a puzzle. Were they Aryans by race who did not observe Vedic customs or were they non-Aryans? The Vrātyastoma by which they were admitted into the Vedic Aryan fold is described in chapter 17. The Vrātyas are said in 17, 2, 1, to be 'hīna' as they neither observe a Brahmin's life nor plough nor trade (हीना वा एते हीयन्ते ये बत्यं प्रवसन्ति न हि ब्रह्मचर्य चरन्ति न कृषि न वाणिज्यम्). ब्रह्मचर्य here means, we think, a Brahmin's life. These were principal Aryan vocations. This sentence is very important. It describes the modes of life of the three castes and krishi is here apparently allotted to Kshatriyas, though it properly belonged to Vaisyas. Or does this sentence simply describe two castes only? The Vrātyas are further described as putting on red turbans. (According to Sind history, to put on a red turban was the privilege of a Kshatriya and Jats were punished if they put on red turbans). And they spoke like Dikshitas or sacrificers though they were not Dikshitas. These descriptions are not, however, sufficient to determine whether these people were Aryans or non-Aryans. Apparently, the later definition of the Smritis that Vrātyas are those Aryans who did not perform the Upanayana ceremony, up to a particular age, correctly describes them. The things to be given at the Vrātyastoma arequeer, a turban, a whip, a garment with black border and a black and white deer-skin. There were Vrātyas even among the gods who had to perform a particular sacrifice (24, 18, 1). They performed the sacrifice without consulting Varuṇa. Budha is stated to be the Sthapati at this sacrifice and he is said to be a son of Soma (सामायनि:).

Who the Sarpas were is also a riddle. They are apparently, like the cows, actual serpents. They performed a sacrifice called Sarpasattra (25, 15,4) in which Jarvara was the sacrificer or Grihapati and by means of which they conquered Apamrityu or untimely death. Among priests is mentioned Takshaka; so also are Dhritarāshtra, Airāvata, Arimejaya, Janamejaya and Arbuda. sattra is the predecessor of the Sarpasattra of the Mahābhārata, which was undertaken, however, by Aryans and for extirpating serpents and not for saving them from untimely death. The names of serpents given here are also to be found among the names of serpent-families in chapter 35 of Mahābhārata, Adiparva; but the names Jarvara and Janamejaya are not found therein. These serpents are described as Abhigara and Apagara and as Shanda and Kushanda, terms which are not well understood. It may be stated finally that in our view these serpents were in reality serpent-worshipping non-Arvan tribes who inhabited the Indian continent before the

Aryans came and who afterwards were so intimate with them that one Sarparājñī composed a Vedic hymn and a serpent named Jarvara performed a Vedic sacrifice.

of historical interest is the story of Viśvāmitra and the Bharatas (who were, as explained elsewhere, the first Aryan invaders of India and not the later Daushyanti Bharatas), led by their king, conquering the Rohita country. This legend is given in 14,3,13 and Viśvāmitra is said to have seen the Sāman, called the Rohitakūlīya because by singing it he successfully assailed the Rohita bank. This country is near the Jumna and some people named Saudanti are mentioned here. These people are not mentioned in MBh which, however, mentions the Rohitaka people as conquered by Karna and Nakula. The Rigvedic kings Trasadasyu, Paurukutsa and Vītahavya are also referred to here.

Of geographical places, the Sarasvatī and the Kurukshetra are mentioned with great respect. Sacrifices were performed at Vinaśana where the Sarasvatī disappears in the sands of Rajastan (25). Plaksha Prasravaṇa is also mentioned as the place where the Sarasvatī rises. Even a Vaideha (Behar) king performed a sacrifice there. The Drishadvatī river is also mentioned and Kurukshetra, lying between these two rivers, is extolled as the Vedi or sacrificial altar of Prajāpati. The Jumna is also twice mentioned

as the river where the Avabhritha bathing should be performed. The twelve years' sacrifice in the Naimisha forest is described in 25, 6, 4. This forest is in Oudh and is frequently referred to in the Upanishads (नेमिपीयानापुद्राता बध्न-Chhāndogya) and is the place where the Mahābhārata was recited to the Rishis by Sauti.

We have interesting references to the subjects of prosody, grammar and arithmetic which were being studied zealously at this time. In 17, 14, 2 are given the numbers above thousand as Ayuta (10 thousand), Prayuta (lakh), Niyuta (10 lakhs), Arbuda (crore), Nyarbuda (10 crores), Nikharva (Abja) and Badva (10 Abjas), a word appearing in Brahmanic gathas in describing the numbers of cows given as Dakshinā by great kings. In 10, 8, 1 are given the Vibhaktis (case-forms) of Indra as Indram (Dvitīyā), Indrena (Tritiyā), Indre (Chaturthi), Indrat (Pañchami) and Indra (Vocative). In 4, 4, 7 is given the rule that the metres increase by four letters each (a rule thus long recognised before Kātyāyana) and the names of the metres, beginning with Gayatri and ending with Jagati, are given in 9. The several deities presiding over these metres are also constantly referred to.

With regard to astronomy, the information contained in this Brāhmaṇa is not as detailed as in the Taittirīya Brāhmaṇa. The Nakshatras are not mentioned anywhere, either singly or

by groups. The five year cycle was known already; but four years only are mentioned by name, Idvatsara being not mentioned (17, 13. 7). This non-mention of Nakshatras or Idvatsara can, however, lead to no inference, as their mention was not imperative.

The names of the different priests at a sacrifice are given in one place (24, 4.5), as Hotri, Adhvaryu, Potri, Udgātri, Neshtri, Achchhāvāka, Maitrāvaruṇa, Brahman, Pratihartri, Prastotri, Brāhnaṇāchhamsi, Grāvastut, Pratiprastotri, Agnīt and Unnetri with Grihapati or sacrificer.

Finally, the humanitarian sentiment was coming forward, as we find that abstention from meat during the four (rainy) months is recommended as pious (न चतुरो मासान् मांसमआति न स्वियस्पेति 17). This is the beginning of that doctrine of Ahimsā which was subsequently preached by the Upanishads and the Bhagavadgitā and which later was taken up with vigour by Jainism and Buddhism.

VI The Aitareya Brāhmana

We now come to the Aitareya Brāhmaṇa, attached to the Rigveda, which is evidently the last of the Brāhmanas composed in the Brāhmana. period. The Gopatha Brāhmana attached to the Atharvaveda is, there is no doubt, the latest Brāhmana extant. But the Atharvaveda itself was compiled after the Satapatha and even the Taittirīva: and hence its Brāhmaņa, Gopatha, falls outside the Brāhmana period, as will be shown in detail later on. The Aitareva Brāhmaņa is, therefore, the latest Brāhmaṇa of the Brāhmaņa period and, being very detailed, deserves our close attention. It has been carefully studied by European and Indian scholars beginning with Dr. Haug (who has translated it into-English) and M. M. Kunte, whose work "The Vicissitudes of Aryan Civilization" is well known; and we will draw upon their views very often in placing the following account of this Brāhmaṇa before the reader.

The author of this great Brāhmaṇa is Mahīdāsa Aitareya, a name mentioned in the Chhāndogya Upanishad. Its date, therefore, must be earlier than that of the latter. The strange legend about Aitareya, given by Dr. Haug from Sāyana, is a name-legend and has no historical value. It states that he was born of Itarā and being not

sufficiently clever was disliked by his father. His mother Itarā prayed to mother-earth (Mahī) and by her blessing, Mahīdāsa became a learned man and a Brāhmaṇa-writer. It may be added that Itarā is supposed to be a Śūdra woman and that her son was named Mahīdāsa for that reason. This story is clearly based on the names Itarā, Mahī and Dāsa and may be set aside as unhistorical. Sudāsa, the Rigvedic king, may as well be treated as a Śudra on such theories; indeed he has been so treated by some.

The extant Aitareya Brāhmaṇa consists of forty chapters which are put into eight pentads of five chapters and hence called Panchikās. These forty chapters are again divided into Kaṇḍikās the number of which is not fixed: and ranges from 6 to 12. The first pentad has thus 30 Kaṇḍikās, the second 41, the third 50, the fourth 32, the fifth 34, the sixth 36, the seventh 34 and the eighth 28: in all there are thus 285 Kaṇḍikās. The sentences in each Kaṇḍikā are not counted as in the Taittirīya Brāhmaṇa. If they be taken to be about 20 in each Kaṇḍikā, we have about 5700 sentences in this Brāhmaṇa.

"The style of the Brāhmaṇa is on the whole uniform, certain phrases constantly re-occurring. The language is more recent than that of the Samhitā; but it is not yet classical Sanskrit. Purely Vedic forms occur such as the infinitive in tos e. g. kartos, generally dependent on Iśvara,

(Isvarah Kartoh). The bulk of the book appears to have proceeded from a single author though some additions may have been made afterwards of stray Kandikās. These could be without disturbance as the number of Kandikās in a chapter is not fixed" (p. 69. Haug, Intro.). It is probable that a still more amplified work of the name Mahaitareya existed for some time, being mentioned in the Asvalayana-Tarpana-Vidhi. But it has now disappeared and this Brāhmana with a few additions has remained, unlike the Mahābhārata which has survived though the Bhārata also, mentioned by Aśvalāyana, has disappeared. The 13th and 14th Kandikās are thus identical with the 18th and the 19th, as pointed out by Haug: "VII 10 and 11 are looked upon as interpolations having a different language." But it is not necessary to look upon VII 11 as an interpolation from some old astronomical work, because it gives many astronomical details or because it mentions two other Brāhmanas. Astronomy was long studied and divergence of opinions among Achāryas was always. noticed with respect.

The Aitareya, being attached to the Rigveda naturally principally treats of the duties of the seven Hotri priests (who do their work by the help of Rigveda Mantras) at the great Soma sacrifices and the royal inauguration ceremony. It naturally does not treat of all the sacrifices, which

properly are the province of the Yajurveda, nor of the duties of the Adhvaryu or the Udgātri. These it takes for granted as known to the reader. "All minor Ishtis and sacrifices are excluded, though the Hotri priests have to officiate at these, as their duties in connection with these are insignificant. The first two books (Panchikas) and the first three chapters of the third treat of the duties of the chief Hotri at the Agnishtoma Soma-sacrifice: for this is the model (Prakriti) of all Soma-sacrifices which last for one day, and all other sacrifices are its modifications. These duties are mentioned in the exact order in which they are required." It is not possible to go into the details of these duties. "The fifth chapter of the second and the first three chapters of the third book are taken up with the explanations of the Sastras (praise-hymns) of the Hotri at the morning, mid-day and evening libations, the morning, breakfast and afternoon teas, so to speak, of modern days). In the last chapter of Book III and the first two of the fourth, the principal modifications of the Agnishtoma are mentioned and described, viz. Ukthya, Shodasī and Atīrātra, Then follow Sattras and sacrificial sessions lasting a whole year and the duties of the Hotris in these are laid down in the third chapter of the fourth book. The last two chapters of the fourth and the first four chapters of the fifth describe minutely the duties of the Hotris at the

Dvādaśāha" (p. 63, 64, Haug).

The whole of the sixth book, after some remarks on the Grāvastut and Subrahmanya, treats of the duties of the six minor Hotri priests at the great Soma sacrifices which last for one week at least or a series of weeks. (The week with the ancient Vedic people consisted of six days and was called Shadaha). The seventh and the eighth books, the most important historically, treat of the peculiar sacrifices of the Kshatriyas. There is here a description of the inauguration ceremony of kings viz., Rājasūya and Mahābhisheka etc. and "the story of Sunahsepa, to be recited at the Rajasuya, is related here with great power and imagery (we will notice this story in a note). A Kandikā mentions here great kings of old so anointed. The last chapter speaks of the appointment of a purchita duly qualified" (page 68).

"The Brāhmaṇa must have been composed from (1) sacred texts and formulæ which were already in use (from Rigvedic days, for the sacrifice was a very old institution with the Indo-Aryans); (2) from Nivids and Gāthās including Itihāsa; (3) Theological expositions; (4) other Brāhmaṇas also." The author has also added many explanations and expositions and remarks of his own.
"The Mantras referred to for recital are for the most part to be found in the Rigveda we possess. But there are several not to be found. We must, therefore, conclude that Aitareya's Sam-

hitā was different from the Śākala Samhitā. And Aśvalāyana supplies the text of such Mantras (only the Pratīkas being given in the Brāhmaṇa). These are found taken with a variation in the Atharvaveda" (p. 71).

We do not discover in this Brāhmana that Vedantic spirit which became supreme later on in the Upanishads. The work is full of sacrifice and the fruit of knowing its importance is Svarga or prosperity in this world. The words Sāyujyatā and Salokatā do sometimes occur: but the word Brahman is not yet used in the sense of the highest impersonal God. The first sentence, however, of this Brāhmana discovers that the old Vedic spirit is on the wane. Agni is the lowest of the gods and Vishnu is the highest, neither Prajāpati who is only the creator, nor, Rudra of the Yajurveda, nor Indra, the god of the conquering Aryans. But Vishnu is not yet the Vishnu of Upanishads, being not yet identified with Para Brahman as in the line of the-Kathopnishad ''तद्विष्णोः परमं पदम्.''

This again supports the view that the date of this Brāhmana must be taken a little before the date of the Chhāndogya and other Upanishads, i. e. it must be somewhere about 2500 B.C., which, as shown later on, is the commencement of the Upanishad period. The place of its composition must be the middle country or Madhyadesa referred to with pride in VIII 14 (1919).

मध्यमाया प्रतिष्ठाया दिशि). Like the Rigveda Samhitā, this Brāhmaṇa, however, is now recited in the Deccan only and hence has got the peculiar letter and pronunciation & (!) substituted for d. It could not have belonged to the Brāhmaṇa when it was composed by Aitareya in the middle country, but must have crept into it in the Deccan where the Aryans settled about 800 B.C., as already stated.

Many historical and social facts regarding the condition of the country towards the end of the Brāhmana period may be gathered from the Aitareya Brāhmaņa. The Aryans had spread eastwards into Bengal and Orissa as Andhras (pronounced here as Andhras), Paundras, Pulindas, Sabaras, Mūtivas and other Udantya (?) people are mentioned in VII 18. These are supposed to be sons of Viśvāmitra cursed by him for not admitting Sunahsepa to the Viśvāmitra clan. The Aryan invaders in these parts must have been few and must have given up Aryan practices. Vanga and Kalinga were, we know, long outside the pale of Aryanism and the original Brahmins settled therein (who are cultivators) are still looked down upon as degraded. The centre of Aryan civilization was still the middle country, viz. eastern Panjab and western U.P. in modern language. For here ruled kings called Rajas and the chief people were the Kuru-Panchalas and Savasa-Usinaras: तस्मादस्यां भवायां

मध्यमायां प्रतिष्ठायां ये के च क्रक्पञ्चालानां राजानः सबशोधीनराणां राज्यायैव तेडमिषिच्यन्ते (VIII, 14). Savaśa as a people's name is not found in MBh. The kings in the east were called Samrāt, probably because they ruled imperiously a non-Aryan population. The kings in the south were called Bhojas (those who enjoy). They ruled kingdoms on the southern bank of the Jumna. We cannot suppose that the Indo-Aryans had advanced by this time into Deccan or Vidarbha, though kings in Vidarbha also bore this title according to Puranas and even Kalidāsa's Malavikāgnimitra. We know that Mathurā was ruled by Bhoja kings and the kings in Dvārakā were also called Bhojas. In the Brihadāranya Upanishad, Janaka is addressed always as Samrāt and Jarāsandha is also Samrāt in the Mahābhārata. These two titles Samrāt and Bhoja thus continue in Pauranic times. Kings in the west were called Svarāt (self-ruling or democratic) a term not well understood nor continued in Pauranic times. These kings were kings of the Apāchyas and Nīchyas, terms also unintelligible, but showing that these people of the west were looked down upon as base by the middle-land Aryans. The kings of the northern peoples beyond the Himālayas such as "Uttara Kurus or Uttara Madras" were called Virāt; probably they were not kings but heads of republics. Imaginary people beyond were named after the real people of the Panjab and this

mame of the kings and this nature of the people. is confirmed by the accounts of them in the Mahābhārata where, in the Digvijaya of Arjuna, it is said that no human being ever went there (Sabhā P.). The Tibetans even in those days also were a sealed people. The kings in the wellknown middle country were called merely Rajas. The king who conquered all these kings in the four directions was called Ekarāt, the sole king of "the earth up to the seas." The eastern and western oceans were certainly well-known and probably even the southern. He also was called Sarvabhauma and had all other titles such as Samrāt, Virāt, Bhoja, Parameshthin and Mahārāja etc. This power he obtained by the Mahābhisheka or the grand coronation ceremony (VIII 15).

Higher sacrifices were popular among kings and they raised the power of both Kshatriyas and Brahmins. Indeed, Rāshṭra or nation was constituted by the Kshatriyas and the Vaiśyas while the Brāhmins remained above it. Vaiśyas were agriculturists and payers of taxes to the kings and Sūdras were mere labourers (VII 29). Mixed castes are not mentioned; and we miss the provision made in the other Brāhmanas as to how the sacrificial horse in Aśvamedha was to be guarded in its wanderings. The eighth book begins with the praise of Brahman and Kshatra for which Rājanya is another name, as also Ugra, which is also used here in a Vedic verse as an adjective.

(VIII 2). Probably Rājanyas and Sūtas became the headmen of villages. Nishādas, also called Selagas (a word not well understood nor common), lived in forests and led the life of robbers (VIII,11). Janamejaya Pārikshita is mentioned here as a great king who had conquered all kings.

The Mahābhisheka ceremony, which, as in modern days, included Abhisheka with curds, honey, ghee and water (दधि, मधु, घृत and आप्, VIII 20), is extolled by the enumeration of great kings so anointed. The list is first given by the Satapatha and is thence copied in the Mahābhārata with the traditional gāthās in the Shodaśa-Rājīya-Ākhyāna. The list here begins with Janamejaya Pārīkshita, probably the latest in memory, and mentions 2. Saryata Manava, 3. Satānīka Sātrājita, 4. Āmbāshthya, 5. Yudhāmśraushti Augrasainya (a new name), 6. Viśvakarman Bhauvana, 7. Sudāsa Paijavana, 8. Marutta Avikshita (VIII, 21), 9. Anga, 10. Bharata Daushyanti, 11. Durmukha Pānchāla, 12. Atyārāti Jānantapi etc. (VIII, 22). These are mythical kings though Sudāsa Paijavana is well-known from the Rigveda and Bharata Daushyanti from the Mahābhārata. It is interesting to compare the three lists and the gathas quoted therein which seem to form a common folklore. The word badva, meaning a hundred million, appears in all the three in the praise of Bharata. The strange word Mashnare is inexplicable.

The social condition depicted in the Aitareya Br. is well described by Kunte in his "Vicissitudes of Aryan Civilization" which properly looks upon the Samhita period as the period of the conquest of India by the Indo-Aryans and the Brāhmana period as the period of their prosperity. "The institution in which Aryan energy was centered at this time was the sacrifice and its performance involved philosophy, trade, military prowess and even cultivation of the soil". Pompous and magnificent sacrifices were evolved which displayed the learning of the Brahmins and the wealth and the power of the Kshatriyas and thus impressed with awe the Vaisyas and Śūdras. Gilded cloth for elephants and jewels and gold are referred to in VI 27 and IV 6 and chariots drawn by mules and silver carriages in VII 18. The Sudras unfortunately, like natives in East Africa under European settlements, were not much counted, as they are described as Kāmotthāpya and Yathā-Kāma-Vadhya, i. e. to be ousted and beaten at pleasure. They improved their position in subsequent times as we see from the Sūtras and the Smritis. But the Indo-Aryans were a people of a really higher character and more moral than the non-Aryans. For Sunahsepa sblames his father for being ready to sacrifice him which not even a Sūdra would do (VII,17). We find here an echo of the Anaryajushta of the Bhagvadgita. The Kshatriyas, however, seem to have been given to drink. In Indiaprobably, the invigorating yet not inebriating. Soma drink was not to be had and the Sautrāmaṇi sacrifice, it appears, was specially provided to sanctify liquor. A. B. VIII 8 praises Surā as Kshatra or power and the Kshatriyas drank it. Brahmins also drank it at this sacrifice, though not at any other time. The four caste system was firmly established and even the gods had castes. Maruts with Rudras and Vasus were Vais'yas and Pushan, though alone, was Śūdra (I9).

The motives for performing big sacrifices were obtaining fame, social position, accomplishment of all desires and success against enemies. But every one could not perform a Soma sacrifice, as the sacrificer was to possess six cows at least before he could perform a Soma sacrifice. A rich man married more than one wife (IV 23). Brahmins learned the Vedas and, when fully equipped, they were called Anuchana. But sometimes even these did not get any respect and Chāturhotramantra recitation in a forest is prescribed for them to earn fame (V. 23). An education system had been evolved. The teacher was called Achārva. The mode of initiation, the rules of pupilage and the costume of pupils were settled (T.B. III 10, 9, 5); and VII 13 and 23 mention. the Krishnajina of the Brahmacharis. Young men. dwelt with their teachers and observed a stern. and rigid discipline as Nābhānedishta did (II 15)_

"The patriarchical family system prevailed, the father being the master and the judge of the family (vide the Sunahs'epa story and that of Viśvāmitra). The mother also consequently had importance and could take her meals before her sisters-in-law'' (III 37 तस्मात्समानोदयी स्वसान्योदयीये जायाया अनुजीविनी जीवति). Sons were preferred to daughters, for the prayer constantly is to have Viras. Marriages were gorgeously celebrated. marriage gifts (Vahatu) were paraded as the procession went to the home of the bride-groom. Some mixed with milk was the favourite beverage. The Rishis attributed to it their conquests and their knowledge. Next to the members of the family, the cattle attracted the greatest attention. Their pasture grounds were carefully looked after (IV 27) and large sheds were erected for their accommodation (VII 24). The right of possession was the right of property in disputes (VI 28). Brahmins were divided into gotras like Āngirasa and Vaišvāmitra; but adoption into anothor gotra was also in use, as Sunahs'epa Ajīgarti, who was originally an Angirasa, became a Vaiśvāmitra (VII 17). The princes often owned only a few villages and extensive forests bordered on every kingdom (III 31).

Note 1:- The Legend of S'unahs'epa and its Meaning.

This well-known legend, told with poetical power in the Aitareya Brahmana (VII 18), is shortly as follows:-Harischandra of the Ikshvaku race had no son. He prayed to Varuna, the king (ruler of the world), for a son, vowing to sacrifice him to that deity, and by his favour had a son. On one pretext or another, he postponed sacrificing his son Rohita, until he was grown up enough to bear arms. Rohita fled to a forest, when at last his father could no longer offer any excuse to Varuna and proposed to sacrifice him. For six years Rohita roamed in jungles while his father was afflicted with dropsy by the cheated Varuna. Once Rohita in his wanderings came across the sage Ajigarta with his wife and three sons. They were starving and Rohita induced Ajigarta to sell his middle son S'unahsepa for a hundred cows, Ajīgarta being unwilling to part with the eldest and his wife with the youngest son. S'unahsepa was offered as a substitute for Rohita and Varuna accepted him gladly, saying that "a Brahmin was better than a Kshatriya". S'unahsepa, bound to the slaughterstake, saw no escape from death and, in his despair. prayed to Varuna himself and that deity slowly unbound and released him. Viśvāmitra, who was the Hotri at the sacrifice, accepted him as his son, as he was loth to return to his father and thus S'unahsepa thenceforward became Devarāta Vaisvāmitra.

Such is the simple story, shorn of the many embellishments added by the Aitareya, which states that it should be related to a king at the time of his Abhisheka by the Hotri seated on a golden stool. The Sütras add

that the king should, at the time, be surrounded by his sons and ministers. It is surmised by many from this that in Rigvedic times the king's anointment was accompanied by a human sacrifice. But we have already stated that in those times there were no human sacrifices and even the Purusha-sūkta, which is similarly misunderstood does not support such a theory. The S'unahs'epa legend is, however, in its origin very old and we do not look upon it as wholly invented by Mahidasa Aitareya. The idea of sacrificing a son appears even in Jewish ancient tradition, though the Jews had never practised human sacrifice. Sacrifice is a very ancient mode of worship and obtained among the Jews as well as among the Indo-Aryans. And when the Bible relates the story that Abraham was asked by the Deity to sacrifice his son Isaac, we may be assured that the idea of sacrificing a son is natural to man from the desire to offer to the Deity what is dearest to the worshipper. The legend of S'unahsepa, therefore, may be taken to be prevalent even before the Rigveda compilation. Nay, it is admitted that the S'unahsepa account is more natural than the Bible story which mentions God as calling upon Abraham to sacrifice his son Isaac, while the Indian story represents Harischandra as himself proposing to sacrifice his son to Varuna.

But the legend has been much improved upon by the Aitareya Brāhmaņa from the hymns of S'unaḥs'epa as they are given in the Rigveda (I 24 to 27). In the first place these hymns are supposed to be uttered while S'unaḥs'epa was bound to the sacrificial stake. But if we scan these hymns, it is impossible to look upon them as uttered by the Rishi in his helpless condition. Excepting the first (B. I. 24), they do not mention S'unaḥs'epa at all. Thus the words, 'Come to our sacrifice' (का नो अवर्ष इस I 26, 1) cannot come from S'unaḥs'epa,

bound to the stake, nor स नो महा, &c. in 27. It seems tous that the hymns 25-27 were composed by the Rishi when he was free and independent and a sacrificer himself. The legend of his being purchased for sacrifice and offered at sacrifice is. no doubt. hinted at in I 24. But this hymn plainly belongs not to S'unahs'epa but to a descendant of his. It mentions the Rishi S'unahs'epa and also uses the words 'me' and 'us' (माम्-अस्मान) which could not both have been uttered by S'unahs'epa. S'unahs'epa became a famous Rishi and his hymns, addressed to various deities, were taken into the golden treasury of songs, prefaced by a hymn by a descendant of his, alluding to the legend which had gathered round the Rishi, even before the compilation of the Rigveda (see R V 2, 7 also), in the same way as we have hymns of Vasishtha and his descendents, one of whom alludes to the legend that had gathered round the birth of that great sage.

The order in which the hymns of S'unahsepa are arranged in the Rigveda is ingeniously but unskilfully taken advantage of in the Aitareya, which represents the Rishi bound to the stake as praying first to Prajāpati (本 !!!), next by his direction to Agni, then to Surva and then to Varuna. This is conceivable and these verses are given in the hymn (I 24) composed according to our view by one of S'unahshepa's descendants, though attributed to him, as it alludes to the story. But the Aitareya brings in other hymns 25 to 27, by making Varuna direct the sage to pray to Agni; Agni again directs him to pray to the Asvins, they to some other god and so on the round is again taken. Besides the absurdity of bringing in these other hymns, we have further to dethrone Veruna from his kingship and to ignore the fact that he was the deity affronted. It is clear that these other hymns are addressed to different deities at different times by a Rishi who is fully at liberty and is prosperous and have no connection whatever with S'unahéepa bound to the slaughter-stake. The pāśas referred to in the last verse of I 25 are the usual pāśas of Varuṇa who is supposed to bind the sinful; the words uttama, madhyama and adhama qualifying pāśas are figurative ones, though even if interpreted in their ordinary sense they are the usual three ties with which the offender in general is bound and not particularly the victim Rishi.

There are other additions which may clearly be detected in the story related in the Aitareya. It does not seem that the adoption by Viśvāmitra was against the wish of Ajigarta or that Ajigarta was ready even to take a knife and slaughter his son, because nobody else would consent to do it. This is a hyperbole clearly detectable from the fact that in I 24 S'unahsepa prays for respite in order that he may live and see his father and mother (पितरं च दुशेयं मातरं च). We must however. accept the tradition current in the days of the Aitareya that the descendants of Devarāta Vaisvāmitra, alias S'unahśepa Ajīgarti, were the Kāpileya and Bābhrava Brahmins, (Kapila and Babhru being probably his descendants), and the tradition that Viśvāmitra's fifty sons went beyond the Aryan land into Pundra (Eastern Bengal) and further as far as Andhra and became incorporated with the Dasas or non-Aryans who inhabited those lands.

What connection this legend has with the anointment ceremony of kings, it is hard to see. But there is no doubt about the fact that this ceremony was never celebrated with human sacrifices.* As said before, human

^{*} Keith has pointed out (p 62 Intro.) that Hillebrandt's view that Rajasūyas were formerly accompained by human sacrifica is not acceptable. "The Purushamedha depicted in S'ānkhāyana S'rauta S. and Vaitana is clearly theoretic and not real.

Note 2:- Interesting Information from Haug's Introduction to his Aitareya Brahmana with our remarks where necessary.

1 That part of the Veda which contains the sacred prayers, the invocations of the deities, the chant verses at the sacrifices, the sacrificial formulas, blessings and curses by priests are called Mantras (products of thinking). This word is very old and is found in the Zend Avesta as Manthra. Zoroaster is called Manthran, speaker of Manthras; one of the earliest names for the scriptures of the Parsis is Manthra Spenta.

This shows that the word arose when the ancesters of the Parsis and the Hindus lived together. The Brāhmaṇas arose later when they had divided, as there is no word corresponding to Brāhmaṇa among the Parsis. The idea of the fights of Devas (representing Hindus) and the Asuras (representing the Parsis) mentioned in the Brāhmaṇas arose later (p. 2-3).

2 Sacrifice is a very old institution and one cannot, therefore, make a distinction, made by some, between the Mantra period and the Chhandas period. One cannot assign to the former sacrifical hymns to be treated as late and to the latter, hymns religious and devotional, and therefore early. The horse sacrifice hymn (R I, 162) cannot thus be assigned to the Mantra period as conceived by Max Müller, (viz., 1000-800 B.C.). The names of the deities Indra, Varuna, Aryaman etc. found in it are found among all Aryan nations. The sacrificial art had already developed. The fifth verse of the above hymn mentions performing priests, viz. Hotri, Adhvaryu, Avayāj, Agnimindha, Grāvagrābha and S'amstri. In the times of the Brāhmanas, no doubt, even a simple Soma sacrifice required sixteen

priests; but the system was well laid already; for among the Parsis we have the Hotri as Zota and the Adhvaryu as Rathvi (or Adhyaru).

- 3 The Pratiprasthātri is an assistant of the Adhvaryu as A. B. I 18 calls the two Asvins the two Adhvaryus. That there was a plurality of Adhvaryus in the time of the Rishis, we find from R. II 37, 2 or R. VIII, 2, 4. The fourth priest Agnimindha or Agnīdhra mentioned also in R 11 36, 4 has to repeat "Asto S'raushat" (R 1 139, 1) when the Adhvaryu calls upon him by 'O' S'rāvaya and he takes up a wooden sword called Idhmasannahanī making three knots Trisandhāna." The whole ceremony with the formulas used resembles so closely what is recorded in the Zend-Avesta of the angel Sraosha that we may conclude that the duties of the Agnīdhra were already known before the Iranians separated from the Indians. Vashatkara and Anuvashatkara are mentioned in many Rigvedic hymns (e. g. I 120, 4 and VII 15, 6).
- 4 The fifth priest Grāvagrābha is the Grāvastut of the Brāhmanas who recites the Pāvamānya verses when the Soma juice is being extracted by the Adhvaryu. He probably then held the stones for Soma-squeezing. Soma juice (Homa) is known to the Zend-Avesta and the name of the squeezing priest is there Avanan, one who prepares the Havana (Savana-Libation) p. 16.
- 5 Hotri and Adhvaryu are very old and have their counterpart among the Parsis, but not so with Udgātri and Brahman. The Hotri praises (जन) but the Udgātri sings (रत् or ने), see R VIII 1. 1, VI () or 69, 2 and the technical terms are Uktha or S'actra and Stoma or Sāma. These names are not found in Z and-Avesta. (It may be noted that chanting is not a part of the Parsi Homa ceremony and we think that Sāma-singing arose in the Panjab the people of which are even now

very fond of singing). Brahman was introduced subsequently but earlier than the Brāhmaṇa period. He is mentioned in R 1, 10, 1. The Brahman's duty is ऋणत as opposed to शंसत and गायत (R VIII 32, 17). In R X 91, 10 Brahman is mentioned with Potri, Neshtri, Hotri and Grihapati etc (तवामे हात्रं तव पोत्रमृत्तियं तव नेष्टं त्वामेन्द्रतायतः तव प्रशास्त्रं त्वमध्वरीयसि त्रक्षा चासि गृहपतिश्च ने। दमे॥) The Brahman was looked upon as idle (RVIII 92, 30 and A. B. V, 34). He was the expounder of religious matters (R X 71, 11) and thus "became author of Brāhmaṇas". (This is, however, not necessarily the case as we think that Aitareya was not a Brahman. Probably the authors embodied decisions of the Brahmans given in previous times, like High Court decisions embodied in legal treatises). Brihaspati, the teacher of gods, is called Brahman in R X 14, 3.

6 The Agur, the Yājyā mantra, the Vashaṭkāra and the Anuvashatkara are very ancient; for the Agur or introductory formula "ये यजामहे" is found even in the Zend-Avesta, as many Parsi prayers even commence with "Yajamaide". But the Vashatkāra (वीषट्) and Anuvashatkāra (श्रोषट्) preceded by अमे वीहि ('Oh fire eat') are not found among Zoroastrians as they did not allow anything, flesh or homa or cake, to be thrown into the fire. "Priests have only to show their offerings to that element". It may be added that Zoroaster, probably reformed the old Aryan religion by prohibiting animal sacrifice or the throwing of any oblations into fire as Christ stopped animal sacrifice among the Jews. In both cases, it was not the sentiment of Ahimsā that was at work, as in India in the Upanishadic days, but the desire to keep God unsullied. This explains why Parsis and Christains, unlike Brahmins, Jains and Vais'yas are flesh-eaters, though they have given up animal sacrifice.

7 Haug accepts the date of the Vedanga Jyotisha fixed at 1181 B.C. by Archbishop Pratt and on this date holds that the Brāhmanas were composed from about 1400 to 1200 B. C. and the three Vedas were compiled about 2000 to 1500 B. C. "To believe that the observation recorded in the Jyotisha was taken from Babylon or China is absurd." For the Indo-Aryans were required to make such observations for their sacrifices which commenced only on lucky constellations. The yearly sattras, as described in A. B., fourth Panchika, were nothing but an imitation of the sun's course. They were divided into two parts consisting of six months each; in the midst of both was the Vishuvan. The Chinese ancient documents. Shu King or book of history, and the sacrificial songs of Shu King go back to 1700 to 2200 B. C. and there is no reason why a similar antiquity should not be assigned to the Vedas (p. 48).

8 That sacrificial speculation had commenced long before the Brāhmaṇas is clear from a reference to it in R. I 95 and the so-called Vāmana sūkta R. I 164. Certain decisions were known as Brahmodya, as mentioned in A. B. 5. 25.

9 The characteristics of the stomas and prishthas as given by Haug may finally be given here for the curious reader. Each stoma contains a number of verses chanted according to one and the same tune. The number is often obtained by repetition of the same triplet of verses. The trivrit (nine-fold) is the symbol of Brahman (theological wisdom) and Agni is its deity. The Panchadaśa (fifteen-fold) is the symbol of power and is appropriate to Indra and Kshatriyas. The Saptadaśa (seventeen-fold) is symbolical of wealth in cattle and belongs to Vaisyas. The Ekavinśa is to be used for the third libation and is for progeny. Others such as tripava, trayastrimsat etc., have similarly

symbolical meanings. Prishthas are certain samans and their combinations. The two principal ones are the Rathantara and Brihat Samans (अभि त्वा सून नोनुम and त्वामिद्धि इवामहे).

Hymns referring to sacrificial facts or names cannot hence be considered as of a late period. The Nabhanedishta hymn is also not a late hymn. The story given by the Aitareva Brāhmana is plainly based on the two hymns X, 61-62. He is a son of Manu and the hymns are addressed to the Angirasas. Nābhānedishta represents all births in the universe, the literal meaning of the word being nearest to the navel. He is the guardian of all seeds. Here we have the Zoroastrian idea of the Fravashis, and the word is found in Avesta in the form "nabānazdista" an epithet of the Fravashis and signifies the lineal descendants of future generations (p. 5.). The mention of Kakshīvān and of seven Hotris in hymn R. X 61, (16 & 1), is no proof of its late origin. Kakshīvān is many times mentioned, especially in the first book of the Rigveda, as a great chanter and Soma-drinker, a favourite of the Asvins. He is to the majority of the Rigvedic Rishis a personage of remote antiquity, like Kavya or Angirasa. The seven Hotris are, again, mentioned in many places even with their names Potri, Neshtri, Agnid, Prasastri and Maitrāvaruņa (p. 28).

10 The Nigadas and Nivids preserved in the Brāhmanas and Sūtras, when compared with the hymns of the Rigveda, are more ancient and served the Rishis as a kind of sacred texts. These are incorporated in hymns e. g. 'Predam brahma', 'Predam sunvatam' etc. The Subramhanya formula called a Nigada is found in R. I 51. The word Nivid frequently occurs in hymns, even with the epithet "Pūrva" or ancient (I 89, 3; I 96, 2; II 36, 6). The Marutvatīya Nivid is referred

to by Vāmadeva (IV 18, 7). Aitareya Brāhmaṇa II 33, 34 regards the Nivid addressed to Agni as those words of Prajāpati by means of which he created the whole world. This idea corresponds with the Zoroastrian idea that Ahura Muzda created the world with the Yathā-ahu-vairyo prayer. We actually find that Kutsa, who already, in many Vedic songs, is looked upon as a sage of remote antiquity, says in I 96, 2 that Agni-created, by means of the first Nivid, the creatures of Manu (p. 37).

These Nivids cannot thus be regarded as fabrications of priests in Brahmanic times. Their style is that of the hymns. In short sentences, they give the names, epithets and feats of the deity involved. They have no regular metre but a kind of rhythm. They must have been regarded as very efficacious. (See A.B. 2, 33, 3, 10). Viśvāmitra's hymn (III 47) to the Maruts is based on the Marutvatīya Nivids. The many prayer formulas in Yasna which commence with 'nivae ahayemi' (I invite) are of the nature of Nivids (pp. 38, 39).

These remarkable similarities of words and sacrificial procedure in the Zend-Avesta and the Rigvedic hymns, pointed out by Haug, show that the sacrifice was an old institution and that the procedure was already developed at the time of the compilation of the Rigveda. Haug thinks that the sūktas in the first book are given in that order as they are required in that order for the morning and noon sacrifices (p. 36) and that the hymns of Praskanva (R. I, 44 to 51) contain the principal deities and metres of the Asvinasastra, the deities even in the order they are praised, viz. Agni, Ushas, Asvins, Sūrya and Indra (A.B. IV, 7, 11). It may perhaps be argued that the Aitareya Brāhmaṇa gives this order because we find the hymns in that order in the Rigveda. Why hymns of particular Rishis and in a particular order are

given in the first Mandala is an interesting question and Haug's remarks are suggestive. The arrangement of hymns in the tenth book similarly deserves attention.

Note 3:- Astronomical Statements in K. B. and the age of the Brahmanas they indicate.

We have already noted that the Kaushītaki Brāhmana mentions in many places the new names of months, Chaitra etc. These, as already shown elsewhere, indicate according to S. B. Dikshit, a date from 2900 B. C. to 1850 B. C. (History of Indian Astronomy in Marathi, pp.131-132). This is too wide, though this gives the highest and the lowest possible limits. But we can find a more approximate date from a statement in K. B. I. 3, which is as follows: - " कस्मिन्तो पुनरादधीतेति वर्षीस्विति हैक आहु:... मध्यावर्षे पुनर्वसू नक्षत्रमुदीक्ष्य पुनरादधीत ... न तस्मिन्काले पूर्वेपक्षे पुनर्व-सुभ्यां संपद्यते येवेषाषाढवा उपरिष्टादमावास्या भवति तस्यां पुनरादधीत सा पुनवसुभ्यां संपद्यते उपाप्तोऽमावास्यायां कामो भवत्युपाप्तो वर्षासुपाप्तः पुनर्वस्वोः". Keith translates this passage as follows:- "In which season should he re-establish (the fires)? In the rains, some say. In the middle of the rains, with regard to (seeing) the Nakshatra Punarvasus, he should re-establish...In this period (the new moon) does not come into conjunction with Punarvasus in the first (Pūrva) half of the month (पक्ष). On the new moon which follows after (full moon) in Ashādhas, he should re-establish (fires). The desire is obtained in the new moon, and in the rains and in the Punarvasus." From this wefind that Ashadhi or the full moon in Ashadha was not in the rainy season. It also appears that the month: names were of months ending with Amāvāsyā and not with Purnima or full moon. On this day we find that the Nakshatra is always (or usually) Punarvasu And in re-establishing fire on this day, three desired conditions. are fulfilled, viz. Amāvāsyā tithi, Punarvasu Nakshatra and the rainy season, if not its middle, its commencement. It must be remembered that in olden times the Varshā months were S'rāvaṇa and Bhādrapada. If you take the middle of the rainy season, we have to fix upon the Amāvāsyā of S'rāvaṇa; but on that day the Nakshatra would be Ās'leshā, two Nakshatras ahead of Punarvasus. (One may look into any Hindu calender and find this; for the Nakshatras and Tithis always remain the same with a little variation). The K. B., therefore, recommends the Amāvāsyā of Āshāḍha as the best day for re-establishing fires.

Now this affords a tolerable basis for calculating the date of this statement. This commencement of the rainy season in the beginning of S'ravana indicates the seasons as they were in those times. At present we have the commencement of rains in the beginning of Jyeshtha; in Kalidāsa's days they commenced in the beginning of Ashādha (आगदस्य प्रथमदिवसे भेषमा अध्यातम् etc.-भेषद्व). Supposing that the rains are now thrown back about 60 days and taking 72 years roughly for one degree of precession of equinoxes, we find that the rains must have commenced about (72 × 60) 4320 years ago in the beginning of S'rāvaṇa. This gives us about (4320 - 1928) 2392 B. C. as the date of this statement; we have already shown that K. B. may be placed in about 2500 B. C.

The note given here by Keith is also very important in connection with this date. Keith points out that the date fixed is a refinement on that of T. S. and S'. B. II. 1, 2, 10 which prescribe merely the Punarvasus and that Bau. S'. S. III 1 fixes the date as the new moon in the Punarvasus preceding the full moon in the Ashādhas. The first fact makes it clear that Kaushītaki Brāhmans is later than S'atapatha as also Taittirīya Samhitā.

The second fact makes it certain that in the days of the Baudhayana S'rauta Sūtra, the rainy season had receded by about a month, so that on the new moon preceding the Ashādhi Pūrņimā you could never get the Punaryasu Nakshatra.

There is another passage in the Kaushitaki Brāhmaṇa which makes astronomical statements of far greater importance. These are misunderstood both by Dixit and by Keith. We will first give the passage in original in XIX 3 "स वे माचस्यामावास्यायापुपवसत्युदङ्डावर्त्स्यं बुपेमे ... तदेनं प्रथममामुवन्ति ... स षण्मासानुदङ्डेति स षण्मासानुदङ्डित स षण्मासानु दक्षिणावर्त्स्यं भुपेमे वसन्ति वेषुवतीयेनाहा ... तदेनं द्वितीयमामुवन्ति स षण्मासान् दक्षिणेनेता तिष्ठते उदङ्डावर्त्यन् उपेमे वसन्ति तदेनं तृतीयमामुवन्ति ... तदेनं तिसन्काले दक्षिरेकतागतं सस्यं भवति दहरकान्यहानि भवन्ति संवेपमानादवभृथादुदायन्ति तस्मादत्र न दिक्षिरः चेत्रस्यामानवास्याया एकाइ उपरिष्ठाद्दीक्षरकागतं सस्यं भवति महान्यहानि मवन्त्यसंवेपमाना अवभुथादुदायन्ति.

On this Keith observes at p. 49 of his Introduction that at that time "the winter solestice was at the new moon of Māgha. This is, however, clearly nothing more or less than the datum of Jyotisha and thus yields no date of any assured value for the period in question. If, as is most probable, the Nakshatras were not an Indian invention, but were derived from foreign – probably Semitic-source, it is clear that the date of their fixation would not have the slightest value, save as an upper date for the Brāhmanas. At most the Māgha datum tends to render 800 B. C. as a reasonable maximum date of the composition of the Brāhmana literature."

With due humility it may be said that every statement in this opinion is incorrect. In the first place, this passage mentions no Nakshatras (except in the monthname Chaitra). Further, on the question whether the Nakshatras are Indian in origin or borrowed, it may be said that there is no proof that the Nakshatras were

borrowed from Semitic or other sources. Their names are Indian; they are mentioned even in the Rigveda; their number 27 does not fit in with the Rāśi system which is plainly Semitic. But this Nakshatra question apart, we first have to point out that the Magha datum does not lead to 800 B. C. but to 1400 B. C. as calculated by Dixit, supposing it to be the same as that given in the Vedanga Jyotisha. Even according to Archbishop Pratt, consulted by Max Müller, it establishes a date so far back as 1182 B. C. But this statement is not the same as that of the Vedanga. Considering that Vedanga Jyotisha is not a part of the Vedas and that Brahmanas had been written long before it, the statement could not have been the same as in the Vedanga. Dixit apparently commits the same mistake. Probably he had not seen the original. We have said before that this opinion of Dixit is wrong and we proceed to show here how it is wrong. Dixit does not quote the statement in K. B. on which he bases his opinion. It seems he had not the work before him. The statement in K. B., as understood even by Keith, is that the winter-solstice fell on the Amavasya of Māgha, i. e. the last day of Māgha, while in the Vedanga Jyotisha times it fell on the first day of Magha. We have already shown that the month names in K. B. are those of Amanta months and not of Pürnimänta months.

The day recommended had according to K. B. two disadvantages, viz. that at the Avabhritha bathing they had to shiver owing to extreme cold and that the crops were not yet in. This clearly shows that the bitterest cold was experienced about Māgha Amāvāsyā, which was natural as it was the winter-solstice day. As at present December 21 or January 1st falls about Mārga-shīrsha Amāvāsyā, it follows that the seasons have,

since the days of the Kaushītaki, slided back by two months. This is the same conclusion as that afforded by the first Ashādhā statment about the rains. As this is an actual observation of the time, it cannot be said that it is taken from some old source. The coming in of crops in Northern India now is about the Amāvāsyā of Māgha, when also the days are longer and there is not much cold. The time for the ripening of crops varies in different provinces and is late in the Panjab and this statement probably belongs to the middle country.

There is one doubtful point here which has to be noted, viz. that the passage speaks of getting the sun thrice, once at starting, again after it has moved northwards for six months and a third time when it has moved southwards for six months. For the second day the word used is वैष्वतीयेन which ordinarily means the day when the sun is in vernal or autumnal equinox. summer-solstice day may also be taken to be indicated here. It is certain that in the times of the Brahmanas. Uttarāyana had changed its meaning. Previously it meant the time from the vernal equinox to autumnal when the sun was in the northern hemisphere; but as from summar solstice to autumnal equinox, its motion is actually southwards, Uttarayana was taken from winter solstice to summar solstice. It is nearly certain that वैभवतीय means here the summar solstice; for, if we take it to mean the vernal or autumnal equinox falling on S ravana Amāvāsyā, six months after Māgha Amāvāsyā, the date of such a phenomenon would be unimaginably ancient.

VII SOME MINOR BRĀHMANAS

I The Samavidhana Brahmana

This Brāhmaṇa has been edited by Burnell with a learned introduction. The Brāhmaṇa clearly belongs to the Sūtra period (2000-1000 B. C.) and not to the Brāhmaṇa period (3000-2000). The language is not verbose and there are no repetitions so characteristic of the Brāhmaṇas. The brevity, often troublesome, of the Sūtras is not, however, found here. Kumārila of the 7th century A. D. mentions eight Brāhmaṇas of the Chhandogas including this Brāhmaṇa, which are, he says, without svaras (Intro. p. 6). There is a commentary on this Brāhmaṇa by Sāyana.

The Brāhmaṇa is divided into three chapters. The first treats of Kṛichchhra, Atikṛichchhra and Kṛichchhrātikṛichchhra which in Smṛitis became the usual penances for sins and offences. It is clear that these provisions were followed by the Dharmasūtras which again became the foundation of the Dharmaśāstras or Smṛitis. Svādhyāya also became a means of purification and even of attainment of desires. The Vedas had long become divine and their learning and their reciting became also sacred. Repeating several times particular mantras or sections secured the desired blessings. A particular procedure for such Japa is

prescribed. Bathing thrice a day or standing in water, while reciting, up to the knee, the waist or the neck produced different merits. The ideas of Puranic Tapas or religious austerity have thus their root in these provisions.

It seems also that the divisions of Brahmins according to Vedas had already taken place as also the performance of rites by the help of one Veda only. The rites described in this Brāhmaṇa as also the penances are to be observed by the singing alone of particular Sāmans mentioned. Burnell has traced most of the Sāmans mentioned to the Sāmaveda; but there are some which are to be found in the Gānas, viz. Grāmagāna and Araṇyagāna. There are a few which cannot be found and which Burnell thinks must belong to a different Sākhā of Sāmaveda from the one now known.

Curiously enough, although the Atharvaveda was specially compiled for magical purposes, the other three Vedas also began to be used in the same manner in order that each Veda should be independent of others. This Brāhmaṇa prescribes many Sāmans to be sung for such purposes as also for Kāmya rites. The Shaḍvimśa Brāhmaṇa and the Kaushika Sūtra, as we know, treat of evil omens and the rites for preventing their effects. Burnell points out that the Brāhmaṇa Parimara rite is given in the Aitareya Brāhmaṇa (VIII 28) also, to kill enemies (Intro. p. 23).

Rigvedic verses were certainely used similarly and a Rigvidhana must have existed. This is the precursor of Tantric rites. For "there are filthy rites prescribed even in the first part of Aitareya. Āraņyaka" (ibid). In the Sāmavidhāna. we find a rite described wherein fire from a funeral pyre is to be taken to a place where four roads meet and certain Samans are te be sung (II, 6, 14) after a sacrifice, while throwing ashes on the bed and in the house of an enemy in order that he may leave the village (See also, III, 6, 12 for killing him). In III 3 a similar rite is prescribed for obtaining a maund of gold by propitiating Manibhadra (who is apparently a servant of Kubera) with flesh oblation and the singing of a particular Sāman: अष्टरात्रोपोषितोऽमावास्यायां निरयेकृत्वक्षे क्षीरि-ण्यरण्ये मांसं सुसंस्कृतमेकतृत्यवरार्घ्यं मणिभद्रायोपहरेदेषस्पते मधुमाँ इन्द्र सोम इस्रेतेन हिरण्यद्रोणं लभते (III 3, 3). It even appears. that the Puranic dread servants of Rudra were already invented. We thus have Vināyaka and Skanda to be propitiated by two Samans along with Vishnu and Rudra by two others in I 4, 6-19.

In Europe, similar magical rites were gone through, such as the making of a wax image of one's enemy and slowly melting it in fire. A counterpart of such rites is found in this Brāhmana wherein an image made of dough of an enemy was to be prepared and cut with a razor and the parts were to be thrown into the fire and the remainder eaten by the sorcerer (II, 5, 4).

The Dhāraṇis of the Tibetan Buddhists are also similar rites.

Charms and amulets are again mentioned; but useful rites for curing diseases are also prescribed. The one for curing Yakshman or consumption (II, 4, 9) is notable, as this was a dread disease with the Vedic Aryans, there being a special sūkta in the Rigveda itself prescribed for its cure. There are rites with special chants prescribed for safety of travel etc.

In the third chapter, we have first rites for securing plenty of corn or gold and of cattle and servants, for consecrating a house newly built and for long life. We next have the coronation of kings: if anointed with the Sāman "Ekavrisha" the king becomes an emperor. The Purchita at this ceremony should be given one good village (in inam), one hundred female slaves and one thousand gold coins (III, 5, 3). For victory in battle, rites with particular Sāmans are prescribed. For killing the elephants, chariot warriors, cavalrymen and infantrymen of an enemy, their images of dough were to be made and then cut with a razor and burnt as oblations in fire with a particular Sāman. For seeing goblins and Gandharvas and Apsarasas, two Samans are prescribed for repetition and even gods can be seen by repeating the rite twice (III, 7, 6). A rite is prescribed for finding hidden treasure and another for obtaining whatever is desired. It is

interesting to note that there are several rites prescribed for acquiring the power of अतिनगदिन् i. e. of reciting what is only once heard. The Brahmins had developed memory in reciting Vedas to this high pitch. Finally, there is a rite prescribed for release from re-birth.

From the above description of its contents this Brāhmaṇa clearly belongs to a very late period. It is the immediate precursor of Dharmasūtras. The Vedic sacrifice had receded into the background and Vedānuvachana or recitation of Samhitas or Samans, Tapas or mortification of the body and fasts were now the popular rites for securing one's desires and the merit of performing sacrifices like the Naimishiya twelve-year Sattra. The state of society is reflected in the fact that the sins for which Prayaschittas are prescribed are mainly the same as in the Smritis. They are: - 1 Teaching the unteachable i. e. the Sudras, 2 Sacrificing for them, 3 Uttering obscene words, 4 Drinking liquor, 5 Killing a Brāhmaṇa, 6 Killing a Kshatriya, a Vaiśya, a Sudra, 7 Taking gifts from a king (for a Brahmin of course), 8 Killing a cow, 9 Marrying before the elder brother's marriage, 10 Sexual intercourse with a Sudra woman, 11 Selling the rasas (milk, honey etc.) and animals (for a Brāhmin probably) etc. The society was then completely divided into four castes and marriage with a Sudra woman was prohibited. But it is

creditable that Brahmins abstained from liquor entirely and that the killing of Sūdras was an-offence and a sin.

Finally, we may notice two important state-) ments in the Brāhmana. The seven notes of singing are called Krushta, Prathama, Dvitīya, Tritiya, Chaturtha, Panchama and Antya, the last two names being new. We have, however, the old names Mandra and Atisvārya in I 14, the first being Sauma (of Soma) and the second Maitrāvaruņa. These several notes are used by gods, men, Gandharva-Apsaras, beasts, Pitris, Asuras and Rākshasas, and trees respectively. Rākshasas are here, as at present, associated with Asuras and not with Yakshas as in the Satapatha. The significance of the change will be noticed later. Secondly the Vamsa, i. e. list of teachers given at the end is as follows in the descending order: 1 Prajāpati, 2 Brihaspati, 3 Nārada, 4 Viśvaksena, 5 Pārāśarya Vyāsa, 6 Jaimini, 7 Paushpindya, 8 Pārāśaryāyana, 9 Bādarāyana, 10 Tāndi and Sātyāyani and these two taught others. Viśvaksena is probably Shrīkrishna who was a Sāmavedin. Pārāśarya Vyāsa of Mahābhārata is here given as a different person from Bādarāyani, a fact which we will lay stress on later. Tāndi and Śātyāyani were the two Śākhās into which the Sāmaveda has been split and their followers are many. Paushpindya is an unknown name in Vedic literature.

II Jaiminiya Upanishad Brahmana.

This Brāhmana, first published in America in Roman characters, has been published in Devanagari by Pandit Ramadeva with a short preface by Bhagvad Datta of D. A. V. College, Lahore. He points out in the preface that the Kena Upanishad, which is a part of this Brāhmana, is said by Śamkara to be the ninth chapter of the Talavakāra Brāhmaņa, while it is in this Brāhmaņa a part of the fourth chapter. It is clear, therefore, that this is only a portion of a bigger Brāhmana which has not survived. In the portion which has not come to us "there was," says Samkara, "a description in the first eight chapters of various sacrifices; and thereafter was the Gayatra Sāman described (तदनन्तरं गायत्रसामदर्शनं वंशान्तमुक्तम्)," This Brāhmaņa begins with the Gāyatra Sāman and ends with a Vamsa; then the Kena Upanishad comes, followed by a few more Khandas.

The Brāhmaṇa is divided into four Adhyāyas which are subdivided into Anuvākas, consisting of two or more Khaṇḍas. The first chapter has 18 Anuvākas divided into 60 Khaṇḍas, the second has 5 Anuvākas and 15 Khaṇḍas, the third has 7 Anuvākas and 42 Khaṇḍas and the fourth has 12 Anuvākas and 28 Khaṇḍas. In all there are 42 Anuvākas divided into 145 Khaṇḍas. If on an average we take 12 sentences to each Khaṇḍa, there are about 1740 sentences in this Brāhmaṇa.

The style of the Brahmana is the usual verbose style with repetitions and fanciful explana-The stories told are imaginary as usual. These are, however, philosophical and in the strain of the Upanishads. They copy the stories, given in the Chhandogya, of Kuru-Pāñchāla kings and of learned Udgātris. Jaimini is wellknown as a Sāmavedin Āchārya and his pupil goes by the name of Talavakāra. The Brāhmana, therefore, naturally treats of Samans only and gives philosophical explanations and stories following those given in the Chhandogya Upanishad. It is even clear that they are borrowed from the latter, as Puranic stories are always borrowed from and modelled after stories given in the Mahābhārata. The borrowing is clear from the additions and extensions made. Thus in I, 17 we find the usual works mentioned, viz. Gāthā Nārāśamsīh, and Itihāsa-Purāņa with Kumbya and Raibhī added. What these latter are, we are at a loss to know. There are again the various: parts of the Sama-songs allegorically transferred to the seasons Vasanta etc. (वसन्तो हिद्वार: and so on) in I 12. I 13, 14, 15 again are clearly in the strain of the Chhandogya. In III 4 we have again लवणेन सवर्ण सन्दध्यात सवर्णेन रजतं &c, with an extension, viz. त्रपुणा लोहायसं लोहायसेन कार्णायसम् and finally चर्म च In III 5, instead of Yama, Isana appears as the lord of the southern direction. It seems almost certain that the Brahmana was composed

after the well-known Chhāndogya: yet it belongs to the Brāhmaṇa period and may thus be placed between 2500 and 2000 B. C.

It is remarkable that Śātyāyani is always referred to with respect. Śātyāyani is known to be a Sāmaveda-Brāhmaṇa-author who is also very old, from Pāṇīni's sūtra already noticed. His name is mentioned in the Vamśa (III, 7, 3) in the middle as Śaṅkha Śātyāyanī Ātreya which shows that his name was Śaṅkha, his father's name was Śātyāyana and his gotra was Ātri. Many well-known Āchārya names like Vaiyāghrapadya follow. The Upanishad Brāhmaṇa is also called in one place S'ātyāyani only (सेपा साटयायनि गायनोपानियत).

Other interesting facts fit to be noted are as follows:-

- I. Besides the original unmeaning sounds Hum and Om added to Sāmans, we find such sounds as Ovā, Humbhā etc., and these are variously interpreted in fanciful ways. In III 3 we have even variations of Humbhā (हुम्मा इति बहावर्चस-कामस्य हुम्बो इति पशुकामस्य हुम्बक् इति श्रीकामस्य).
- 2 In III 1, 4 the seven components of Uktha are given as Stotriya, Anurūpa, Dhāyyā, Pragātha, Sūkta, Nivid and Paridhāniyā. These are further explained allegorically.
- 3 Various Rigvedic verses are explained in this Brāhmaṇa in the Brāhmaṇa style, namely, without any real comment but with mere indica-

tions; and some philosophical riddle questions are answered as in I 14 (इन्द्रपुक्षप् नपुद्गीयमाहुः asked by Prithu Vainya to divine Vrātyas) or in I 12 (योभवीत इवितः प्रवाति, a question after the Kena Upanishad beginning). To what Veda these belong is not stated nor has its source been traced.

- 4 We find "Naraka" (hell) mentioned in opposition to Svarga, for the first time probably in Vedic literature, here in IV 4, 25.
- 5 Here are also found the highest arithmetical numbers, viz., Nikharva, Padma, Kshiti and Vyoma (I 1, 11).
- 6 Agni is not to be touched with the hand, the foot, or a stick. The sacrificial fire is as respectfully treated by the Hindus as by the Parsis.
- 7 King Śāryāta Mānava is said in a story to conquer the east. His Udgatri was Ayāsya Āngirasa, as Brihaspati was that of the gods, as Bamba Ajadvipa of the manes and Kāvya Uśanas of the Asuras. The Purānic connection of Kāvya with the Asuras is also probably Vedic. Bamba is again a strange name. Ayāsya and Śāryāta are, however, historical and are not connected by the Śatapatha and the Aitareya in the Aśvamedha sacrificers' list.
- 8 Finally, we find the letter æ (!) used (अपीळबर्) in this Brāhmaṇa which belongs to the southern recitation. We know that the Jaiminīya Śākhā of the Sāmaveda belongs to Karnatak.

III Ārsheya Brahmana

This Brāhmana has been published by Sāmaśrami (Calcutta) in Devanagari with the commentary of Sāyana. It has also been published by Burnell (Mangalore) with extracts from Sāyana's commentary, all in Roman characters. The Brāhmana, as its name indicates, gives the Rishis of Sāma-songs. But these Rishis are different from those given in the printed editions of Sāmaveda. Thus the first verse अम आ याहि बीतये &c is attributed to Bhāradvāja in the printed books. In this Brāhmaņa, in the original and in Sāyana's Bhāshya, it is attributed to Gautama Parka in the first and third Sāmans and to Kāśyapa Barhisha in the second or middle Sāman. It must be remembered that Saman here is different from the verse itself; for three Samans or chants are said to arise from three parts of the verse or portions taken at different times. Whence Sayana gives this information is not indicated: but he gives the original verse on which the three chants arise. But for this Brāhmana, it would have been impossible for us to know who were the first Rishis who chanted the three Samans that arise. A great deal of technical study is necessary to understand this subject clearly and it is impossible for us to enter into further details. It may be added that the verse अन आ याहि बीतये &: belongs originally to the Rigveda and its Rishi there (VI, 16, 10) is Bharadvaja himself as in the

printed Sāmaveda.

It is difficult to determine the date of this Brāhmaņa. The word Smārta which appears in the first or introductory Khanda "defines its real position" according to Burnell. But it seems that Burnell has misunderstood the word. meaning is not the modern derived one. As explained by Sāyana, the word is used in its root sense, viz., "helping the memory" and from the context also this meaning is the only one possible (ऋषीणां नामधेयगोत्रोपधारणं स्वर्ग्य यशस्य धन्यं पुण्यं पुत्र्यं पश्चयं ब्रह्मवर्चस्यं स्मार्तमायुष्यं &c). So far as we have looked through this Brāhmana, there is no indication of its date. The order in which the Rishis are given follows Grāmagāna and Aranyagāna of the Pūrvārchika, according to Burnell: but when these Ganas arose, there is no ground to decide. The Samans must have been taught orally, for two thousand years at least, before they were written. And it is impossible to say what notation was first adopted to show the notes and the me-Burnell says in his introduction (p. xxvi) that formerly letters indicating notes were written between the letters of the verse as in the notation of the music of the ancient Greeks, but that later the letters were substituted by numerals in the south. The figures 1, 2, 3, in the printed editions, given above the letters of the verses, indicate not notes but only the stress accents, Udātta, Svarita, and Anudātta as stated already.

It is interesting to note that these accents are not always the same as those in the Rigvedic verse. Thus the first yerse in Sāmaveda is witten as अम आ याहि चीत्रें गृणानो ह्रव्यदात्रे । नि होता सात्स बहिंबि ॥ (VI, 16, 10) in the Rigveda. It is written in the Sāmaveda with figures as follows:— अमें औ याहि बीतेंगे गृणौनों हैं व्यदात्रे । 'नि होती सत्स बहिंबि'.

In the Saman way of writing and probably reciting also, the verse thus differs from the Rigveda. In Sāma-singing it would be still more different with its divisions into Prastāva, Udgītha etc. When the different ganas arose in Sama-singing the notes were, in oral teaching, shown by touching the different fingers of the right hand. The first written instructions appear in Nārada-Śikshā and then Gautami and Manduki Sikshas (Burnell Intro. p. XX). The age of these ganas cannot be determined, but they may be taken to be earlier than Pāṇini (ibid). Burnell thinks that this Brāhmaņa is later than Grāmageyagāna in its present form but assigns no date to the latter. There are, however, the following indications to show that it is later than the Tandya Brahmana.

Sāma-singing seems to have advanced further by its time and become more complicated than in the Tāṇḍya. Several Sāmans are sung from the same verse which, so far as we can see, was not the case at the time of the Tāṇḍya. Different Rishis are mentioned therein as having seen particular Sāmans which were then named after

them. This does not signify that there were more than one mode of singing that Saman. The names of the authors of these various Sāmans given in this Ārsheya Brāhmana being different from those given in the Samaveda books lead to the same conclusion. The names strike us often as imaginary. Thus in the very beginning Om is itself treated as a Sāman seen by Parameshthin, son of Prajapati or by Brahman itself and Himkāra is said to have been seen by Vasishtha or by Prajāpati or by cows. The sound Hum no doubt resembles that of the cow when it calls for the calf; and the Rishis, being in constant touch with cows, borrowed that pleasing call. (It is, however, always called Himkāra though it is really Humkara). The Brāhmana again quoted in the first Khanda about the necessity of reciting the Rishi, the Devata and the Chhandas of a mantra is well-known and shows that this Brāhmana is later than the principal Brāhmaņas, in other words, is later than 2000 B. C.

The first Khanda states that the person who studies this Brāhmana becomes Sasthāna with Rishis, a new word used instead of the usual Saloka and it further adds that he is born with the memory of his past lives (स्वराजायते पुनः।). These ideas also show that this Brāhmana is later than the other Brāhmanas and the principal Upanishads also. But Burnell thinks that this introductory

Khanda itself is a later addition which is possible. The first Sāman noticed is the well-known Gāyatri and its Rishi, i. e. the author of the singing of the verse, is Pushkala and its deity is Agni and not Viśvāmitra and Sūrya as in the original Rigveda.

The Brāhmaṇa is divided into three Prapāṭha-kas subdivided into 82 Khaṇḍas (28, 25, 29) which consist usually of single but long sentences. The first part is in the Sūtra style: but the second part or index to the Āranyagāna is less artificial (p. viii Intro., Burnell). Who the author is of this Brāhmaṇa has not been stated and is not known from any source. Sāyana, in beginning his Bhāshya, merely says, "There are eight Brāhmaṇas of the Sāmaveda 1 Prauḍha, 2 Shaḍviṁśa, 3 Sāmavidhi, 4 Ārsheya, 5 Devatādhyāya, 6 Mantra, 7 Saṁhitopanishad and 8 Vaṁśa and that having commented on the first three, he proceeds to comment on the fourth."

VIII GOPATHA BRĀHMANA

The Atharvaveda was itself compiled, as we have shown, during the Brāhmaṇa period, presumably sometime about 2,700 B.C. The Gopatha Brāhmaṇa attached to it was composed at a far later period; most probably after the Vaitāna Sūtra, as pointed out by Macdonell, which it clearly follows in its second half. Some passages are taken in it from the Aitareya, the Kaushītaki, the Satapatha and even the Shadvimśa. Although thus falling outside the Brāhmaṇa period (3000-2000 B. C.), we treat of it here as it claims to be a Brāhmaṇa and is treated as such by later authors, being the only one attached to the Atharvaveda.

This Brāhmaṇa has been edited among others by Rajendralal Mitra in the Bibliotheca India Series and we base our observations on this edition. The Brāhmaṇa is divided into two parts called Pūrva Gopatha and Uttara Gopatha. There are five Prapāṭhakas (chapters) in the former and six in the latter. These contain from 39 to 65 paragraphs or Kaṇḍikās, the Pūrvārdha having 135 and the Uttarārdha 123, in all 258 Kandikās. These usually consist of five or six sentences which are often very long.

The style of the Brāhmana is that of the other Brāhmanas, involved and desultory. The language

is not, however, similar to that of the other Brāhmaṇas, being clearly modern and not Vedic Sanskrit, though Rajendralal thinks that the language is also the same, having the same archaic expressions and grammatical irregularities (p. 11 Intro.) The treatment of the subject is of the same kind as in the other Brāhmaņas, never detailed and systematic as in the Sūtras, full of imaginary legends and fanciful explanations, always quoting the dictum of the Upanishads, "The gods hate the direct and love the hidden or occult." One is always put in mind of the fact that this queer explanation is first given by the Chhandogya Upanishad (तस्मादिदंदं सन्तिभन्द्रभित्याचक्षते परो-क्षेण परोक्षप्रिया इव हि देवाः प्रत्यक्षद्विष: 1). Thus 17 has तं वा एतं वरुणं सन्तं वरुण इत्याचक्षते परोक्षेण परोक्षप्रिया इव हि देवा सवन्ति प्रत्यक्ष-द्विष: (भवन्ति being added). We have this dictum constantly invoked throughout this Brāhmana. "Myths, legends and parables constitute the staple of the work, but they are short and pointless. They are intended to explain the origin, nature and fruits of particular ceremonies." (Raj. Intro. p. 12).

This Brāhmaṇa was plainly written at a time when the Atharvaveda was not only recognised as a Veda but had even advanced to the highest position among the Vedas. It begins with the legend that Brahman first stood alone, (the wording here is plainly copied from Upanishads अहा बहुदमन आसीत् ... तदेशत ... महद्दे पक्षम्"), that it created

first water from its sweat and Bhrigu from its seed thrown in this water, that Bhrigu became Atharvan when he looked down (अथ अवीक) and. that Atharvan created ten Atharvana Rishis of one Rik, two Riks &c. and from these, the ten Atharvana Arsheyas of 11 Riks etc. up to twenty. This refers plainly to the Atharvaveda, as we now have it in two parts, viz. the first half with ten chapters and the second half with chapters eleven to twenty. Indeed it is actually stated that these twenty Rishis saw Mantras which form the Atharvaveda. From Atharvaveda was created Om, from it, the three worlds, earth, sky and heaven; from them the three gods, Agni, Vāyu and Sun, from them the three Vedas, Rik, Yajuh and Sāman; from them the sea, from it Varuna, from Varuna or Mrityu, Angiras, from him, the twenty Angirasas and from them the ten Angirasa Arsheyas and from them the Angirasa Veda. (Here Angirasa Veda is treated as distinct from Atharvaveda). From it was born the word Janat. It stood up and hence the Angirasas when reciting stand up. From it, when looking in five directions, sprang five Vedas, Sarpaveda from the east, Pisachaveda from the south, Asuraveda from the west and Itihasaveda from the north, while Puranaveda sprang from above, the Dhruvā direction.

The above legend though absurd is very interesting. In the first place, the legend shows

that the Gopatha was written at a time when the Atharvaveda had advanced in popular estimation to the first position among the Vedas. Atharvan was Bhrigu, born from Brahman itself. In previous Vedic literature we find Bhrigu as a son of Varuna, one of the highest Vedic gods, if not the highest. Varuna here is born from Samudra, born from the three Vyāhritis, born from Rigveda, Yajurveda and Sāmaveda, which were born from Omkāra, itself born from Atharvaveda. Atharvaveda is thus the first Veda from which the other three Vedas were born through Omkāra. "Atharvaveda should, therefore, be studied first by every student before he learns the other Vedas, thus says Vyāsa". Brahman the presiding priest, who before was to dohis duty with the help of Rigveda, Yajurveda and Samaveda was now to be an Atharvavedin.

The directions assigned to the five subsidiary Vedas again are suggestive. Sarpa-Veda was born from the east. Probably the Nāgas were found chiefly in the eastern parts of India. Pi-sāchas and their allies the Rākshasas were found in the south, there being probably still cannibals to the south of the Vindhyas. The Asuras were in the west and Varuna was born of the western sea. They were probably the Iranians or Assyrians or Groeks, with their god Uranus. They were also masters of Māyā or illusion. Mayāsura in the Mahābhārata had such Māyās

constructed in the court-hall he built for the Pāṇḍavas. Why Itihāsa is assigned the north and Purāṇa the headward direction is not imaginable. In the Chhāndogya there is a mention of these Vedas as subjects of study; but they are not called Vedas and Itihāsa-Purāṇa is one subject and Sarpa-Devajanavidyā is also one, while Asuraveda is not mentioned at all.

From the description of the Atharva ten Rishis of one, two and so on upto ten Riks and ten Arshevas of 11 Riks and so on to twenty, it is, as said above, quite clear that there is here a description of the Atharvaveda as we now have it. What then is the necessity of Vimsat (20) Angirasa Rishis and ten Arsheyas and which is their Angirasa Veda is a riddle. The order of these Riks is here reversed. We have first Rishie of 16, 15, 12 Riks and then of one, three, four, five, six, and seven Riks. "From it the word Janat was produced and by reciting this word you have all the merit of reciting the Angirasa Veda." 'This Veda went above' perhaps shows that this is a heavenly Veda not to be found on earth and the word Janat alone survives of it and it is enough for securing the merit of reciting the heavenly Angirasa Veda.

Having discussed this legend of the birth of the Atharvaveda in detail, we may glance over the succeeding contents of the work. We have first the glorification of Om and of Gayatri in

the remaining of the first chapter. The second treats of the duties of Brahmacharya. A period of twelve years for each Veda is prescribed; but a lesser period according to one's capacity or weakness is also allowed. The third begins with how the Hotri should know Rigveda, the Adhvaryu Yajurveda and the Udgātri, Sāmaveda, while the fourth, Brahman, should be one versed in Atharvāngirasas. Various imaginary legends are then given about priests. In Khanda 18, we have a detailed description of how the sacrificial animal is to be divided among the priests and others. The fourth chapter relates to the ordination of priests and also to the year as a sacrifice. The fifth treats of the Samvatsara Sattra first and subsequently enumerates and describes the various sacrifices, अन्याधेयं, पूर्णाहुति ; अग्नि-होत्रं, दर्शपूर्णमासो, आप्रयणं, चातुर्मास्यानि, पशुनन्धः, अभिष्टोमः, राजसूयः, बाजपेय:, अश्वमेध:, प्रुष्पमेध: and सर्वमेध:. The contents of the Uttarārdha are very desultory. "No subject is taken ab initio, but casually with reference to some particular point of doubt. The story of Rudra's fight for a share in sacrificial oblations is given in the first chapter. The second chapter begins with flesh offerings for the various deities. The third chapter relates to the mystic syllables Vashat and Himkara. "The last three chapters treat of morning, noon and evening rites in connection, with Ekāha, Uktha, Ekāshtaka &c." (p. 37)

The author of this Brahmana is apparently Gopatha. The name Gopatha appears as that of a Rishi in the list of Rishis of the Atharvaveda, though not in the list of Rishis of the other Vedas. The author may, we think, be a real descendant of that Rishi. The late Dr. Gune pointed out that the Gopatha Brāhmana was known to Yāska. The latest date for the Brāhmana would accordingly be before 1000 B. C. The earliest date may be fixed at about 1500 B. C., from the fact that the Brahmana is clearly posterior to the ten principal Upanishads, many expressions and legends being copied from them or invented after their model and from the fact that Kalpa works for each Veda are mentioned in P. V. 25 सन्ति चैषां समाना मन्त्रा कल्पाश्च ब्राह्मणानि च । व्यवस्थानं त तत्सर्व पृथग्वेदेषु तत्स्मृतम् ॥

The author probably lived in the middle country, as among the peoples mentioned are Kuru-Pānchāla, Kāśi-Magadha and other northern ones. From the many details about grammar given in P. I, 24 (आंकारं पृच्छामः को धातु: कि प्रातिपदिकं कि नामाच्यातं कि लिन्नं कि बचनं का विभक्तिः कः प्रत्ययः कः स्वरः उपस्मैः निपातः को विकारः को विकारी कित मात्राः कित वर्णाः &c.), the author may have belonged to the north-west. He in one place gives the first Mantras of the three Vedas correctly and for Atharvaveda the first Mantra given is इं नो देवीरिभष्टिये &c., the same as given by Patanjali and as recited now by all Brahmins at the time of their Śrāvanī, as stated

before. The author, therefore, knows the Pippalāda recension only and probably belongs to Kashmir where that recension is found.

The Brāhmana mentions many modern ideas such as ब्रह्म ह वै ब्रह्माणं पुष्करे समुजे (p. 16) or that a Brahmin should not sing or dance and be called Aglagridha (तस्माद्वाद्वाणो नैव गायेश नृत्येन्माग्लागुधः, P. II 21) or the that gods began a sacrifice which the Asuras and Rākshasas wished to destroy (p. VI, 6) or that 'Om' should be pronounced when reciting any Veda or Vedic verse, or that before beginning any rite, water-sipping or Achamana should be done thrice. It is interesting to note that this Achamana or thrice sipping of water is not accompanied by the uttering of names of Shrikrishna, Keshava, Nārāyana and Mādhava as now, but by the sukta जीवास्य &c.* What is Parisumbhana which follows twice, one can not tell (त्रिराचमनं द्विः परिशुम्भनम्).

The last Khanda of Prapāthaka V, Pūrvārdha, consists of verses framed after Vedic mantras in which the greatness of the Atharvaveda is extelled. The sacrifice which is described as समतन्त्र and एकविंगतिसंस्थ in the beginning is said to be sevenfold, viz. seven Sutyas (Somas), seven Pākayajñas and seven Haviryajñas, in all twenty-one, and all these are performed by Angirasas. "The followers of the three Vedas go to Trivishtapa or Tri-

* निरङ्गुष्ठे पाणावमृतमस्यमृतोपस्तरणमस्यमृतायोपस्तृणामीति पाणावुद-कमानीय जीवास्येति सूक्तेन त्रिराचामति (P. I, 39). diva or Nāka; but those of the Atharvaveda go to the great Brahma-lokas beyond them". These verses are distinctly not Vedic; and there are slokas also quoted now and then in the book which do not claim to be Vedic. But where Riks are distinctly mentioned as Vedic, being introduced with the words तदेतहचा-भुक्तम् &c., the reference is not given and probably can never be traced, though attempts should be made to trace them to the Rigveda or the Atharvaveda.

In some cases, however, the Riks can easily be located as many statements in Gopatha are mere copies of those in Aitareya made with a few variations. Thus in U.VI, we have in the beginning तान् वा एतान् सम्पातान् विश्वामित्रः प्रथममप्रयत् which Vamadeva appropriated (R. IV 19, 22, 23). This is a copy of Aitareya VI. 18. The new Sampāta hymns seen by Viśvamitra and others are then quoted which are the same as those in A. B. with one or two less. Viśvāmitra's new sūktas सद्यो ह जातो वृषमः कनीनः (R. III 48) and अभितष्टेव दीधया मर्नाषा (R. III 38) which is attributed to Prajapati in the Rigveda are referred to here. Those mentioned as of Vasishtha are इन्द्रः पूर्भिदातिरद्दासमर्केः, एक इद्बव्यश्चर्षणी-नाम् and यस्तिग्मशृङ्गो वृषमो न मीमः. The first is, however, by Viśvāmitra (R. III 34), the second is by Bharadvāja (R. VI 22), while the third is really that of Vasishtha (R. VII 19). How these Rishis are changed, it is difficult to explain. That some of these suktas from the Rigveda are given in Atharvaveda XIX has already been noted. Thus य एक इद्धन्यश्चर्यभीना is A. XX 3 and वस्तिग्मशृङ्गो is A. XX, 37. The sūkta सथो ह जात: is said to be Pancharcha (of five verses) in the next Khanda (U. VI 2); and it is of five verses in the Rigveda. Indeed Rigveda is the chief basis on which the superstructure of the whole subsequent Vedic literature is raised.

Curiously enough, there are very few statements in this Brāhmaṇa about Dakshiṇās to be given at sacrifices; probably they had become unimportant since the days of the older Brāhmanas, as the sacrificial regime was probably over. Indeed in U. VI 14, to take Dakshinā is considered to be improper. Further there is no Aranyaka or Upanished attached to the Gopatha. Brāhmana which makes it certain that it comes after the well-known Atharva-Upanishads.

The last chapter (VI) of the Uttaragopatha. mentions many other names of suktas to be recited by the three priests Maitravaruna, Brāhmanāchhamsi and Achhāvāka, the whole obviously being borrowed from the last chapter (XXX) of the Kaushitaki Brāhmana, such as Āvapana, Kadvanta, Pragātha, Jāgata, Śilpa, Nābhānedishṭa, Vṛishākapi, Vālakhilya, Sukīrti, and Kuntapa (the derivation of which is given in addition, as burning Kuya or Kutsita; क्रयं नाम क्रीसतं मबति तयचपति तस्मात्कुन्तापः). These Kuntāpas are referred to as 'इदं जना उपभूता, the first verse of the first sukta. of fourteen verses'. The Kuntāpa sūktas are given in the twentieth chapter of the Atharvaveda from 127th to 136th and the first sūkta is of 14 riks with इदं जना उपश्चता as the first. Subsequent three verses are also quoted. These sūktas are from Rigveda probably. But they are not found in the Śākala recension. They are quoted in the Aśvalāyana Śrauta Sūtra as already explained and must have belonged to some other Śākhā. A sūkta called Aitasha-pralāpa or the bragging of Aitasha is mentioned in U. VI 13 and the word Pravalhikā is applied to it.

Finally, while Bloomfield considers Gopatha later than the Vaitāna Sūtra, Caland and Keith consider it earlier (Winternitz p. 190). The mention of Kalpa of all Vedas refers, we think, to Vaitāna Sūtra and this should settle the higher limit for this Brāhmaņa at about 1500 B. C.

ADDITIONAL NOTES ON BRAHMANAS

I Further Particulars About S'ānkhāyana alias Kaushitaki Brāhmana

This work quotes the authority of Kaushītaki every now and then, usually in opposition to that of Paingya (as in IV 9-Kaushītaki decides that oblations should be given after darkness is dispelled in the morning;—or in VIII 9) and thus really represents the Kaushītaki school. The name S'ānkhāyana appears nowhere but he is an Āchārya of Rigveda and there is a Sūtra and an Āraṇyaka in his name. He may be taken to be a follower of Kaushītaki and he appears to have reedited the Kaushītaki Brāhmaṇa in a simpler form.

As edited by the Anandas'rams, the thirty chapters of the work are put into two halves of 15 each. These Adhyayas contain from 5 to 17 Khandas, the total for the two halves being 118 and 148, in all 266. The Khandas are not divided into sentences and are practically long sentences themselves.

This recension almost always uses $\overline{\omega}$ (1) for $\overline{\varepsilon}$ (d) and thus is a southern one. It is followed in Gujarat which is practically a Dravidian or southern province.

The following interesting facts may be noted: :- (1) In II 2 we have the words Sarpadevajana and Rakshodevajana which show that devajana means higher beings. (2) In 4 we have अप आचम्य (यदप आचम्य वर्त विस्ञते). What was the procedure of Achamana we are not told. (3) In III we have यजानन्यापेयमाइ which shows that the gotra and pravara system was firmly established. (4) In VI we have the generally correct observation that sickness prevails at the junction of seasons (ऋत्सन्यि व्याधिजायते). (5) In V 5 we have a simile taken from the king's

march, in front of which soldiers walk making the road safe (यथा महाराजः पुरस्तात्सेनान्यनीकानि प्रत्युद्धाभयं पन्थानमन्वियात). (6) In V 6 we have a reference to S'raddha being performed in the afternoon with oblations in the fire called Kavvavāhana (तस्मादपराह्ने पितृयह्नेन यजते अप्ति कन्यवाहनम्). (7) In VII 8 a S'ikhaṇḍi Yājñasena is mentioned, which name strikes one as that of the brother of Draupadi. (8) In VII 6 the proficiency of northerners in language and grammar is referred to (उदञ्च एव यन्ति वाचं शिक्षितं या वे तत आगच्छति तं श्रश्न-बन्ते). The fame of Takshiśilā and perhaps of Kashmir was still great as the land of Aryan speech, a fame which they lost long before Mahomedan times, probably in the days of Buddhism. (9) In VI eight names of S'iva are explained but in a strange manner viz. S'iva, Pasupati, Ugra, Mahadeva, Rudra, Bhava. Iśāna and Aśani. These names are assigned to a god born of Agni, Vayu, Aditya, Chandramas, and Ushas, themselves born of Prajāpati. For each name, a separate Vrata or vow is assigned and these vows are:- आईमेव वासाः परिदर्धीत. सर्वमेव नाश्रीयात्, ब्राह्मणं न परिवदेत्, स्निया विवरं निक्षेत, उद्यन्तं नेक्षेतास्तं यन्तम्, विमूर्तमेव नाश्रीयान्मङ्जानं च, अन्नमेवे-च्छमानं न प्रत्याचक्षीत, सत्यमेव वदेत्, हिरण्यं विभृयात्. The last is still followed in the Panjab where every Hindu puts golden rings in the lobes of his ears. (10) In VII we are told that Agni is the lowest god and Vishnu the highest, a sentiment which appears to gain strength at this period and is given at the very beginning of the Aitareya Br. (अमिरवरार्ध्यः विष्णुः परार्ध्यः). (11) In VIII 6 the thirty-three Vedic gods are mentioned and are detailed in XI 6 as in Brihadananyaka Upanishad. It cannot be said that one copies from the other. Both only describe the prevailing view. (12) What is the Nirukta mentioned in XI, I (उचेनिस्तामद्भयात्)? It is not that of Yāska, but its source probably. (13) In XI, 13 it is said that in the other world the animal sacrificed would

eat the secrificer. A revulsion of feeling was setting in against flesh-eating and even against animal sacrifice (अमुध्मिन् लोके पश्चवो मनुष्यानश्चीन्त.) (14) In XIV, 3 we have शोंसाबो. शोंसामो and even शोशोंसाबो and शोशोंसामो to be uttered at Prātahsavana etc. In XVII. 7 we have a Sāman named Mārjālīya. (15) In 9 Asurarakshāmsi are joined as obstructors of sacrifice. (16) In XVII, 8 we have the dictum यज्ञो विष्णु: a favourite sentiment with the Brahmanas commencing with S'atapatha. (17) In XVIII a provision is made for the contingency when the ordained animal dies before it is killed in sacrifice. (18) After Devaloka and Pitriloka, Agniloka is described as Jivaloka, Vayuloka as Amritadhāman, Indraloka as Aparājita, Varunaloka as Adhideva, Mrityuloka as Pradiva and Brahmaloka as Rochana. (19) In XXIII 2 an interesting explanation of the name S'akvarī (metre) is given, viz, that Indra was enabled to kill Vritra by its help (इन्द्रो वत्रमशकद्धन्तुमाभिस्तस्माच्छकर्यः). The reader will remember that the Mahānāmnī Sāman is specially addressed to Indra and has S'akvarī verses. also remember the Rik of Vasishthas यच्छकरीषु बृहता रवेणेन्द्रे श्रुष्ममाद्भता वो विसिष्ठा: । (20) In XXV 8 Kaushītaki mentions Baru as the Rishi of a Rigveda sukta (X 96) correctly. This is an uncommon name. (21) In XXV 13 Rudra is said to be the oldest and the best of gods (रही वे ज्येष्ठम श्रेष्ठश्र देवानम्). This is the beginning of the rivalry between Rudra and Visnu about the highest position among gods. (22) In XXV 15 a Brahmin is asked to reside with a Vaisya or a Kshatriya or a Brahmin of the same gotra. Brahmins observed the gotra system most tenaciously. (23) In XXVIII, 1 the Praishas and Nigadas are praised (ते ह प्रेषांश्च निगदांश्च दद्शुः यद्भिर्यह्रस्यानासं न्तदेभिः सर्वभाष्त्याम तानेतान प्रैषान नेप्रेशान विश्वामिको दृदर्श).

II Some interesting facts noted by Mr. Bhagwad Datta in his recent book on "Brāhmaṇas" with our observations where necessary.

- 1 The word Brāhmanas in used in the sense of explanation of sacred verse or rik, in S'atapatha XII, 5, 2, 8 (यथक्तिथा ब्राह्मणम्). The word Bandhu is similarly used for explanation of Yajuh (यथा यज्ञस्तथा बन्धु: S'. VI. 6, 4). The various Brāhmanas were the basis on which the Sarvānukramanīs were subsequently framed. The authors of many suktas in the Rigveda are thus given in various places in the Brāhmanas; e. g. वामदेव: अवेक्षत (Tandya); एतत्कवष: सृक्तमपश्यत पंचदशर्चम् (Kau.); गौरि-बीति शाक्त्य एतत्सूक्तमपश्यत् (Aita.). We have already noted how S'atapatha (II, 1, 4, 29) refers to the sukta of Sārparājnī आयं गी: etc. (X 189). Tāndya 4, 7, 3 refers to इन्द्रं कतं न आभर etc. (R VII 32, 26) as seen by Vasishtha. It is, however, we think, not possible that the Brāhmanas give all the information required for Sarvanukramanis, not even Nirukta, nor the Sütras. The whole information must have been handed down orally till collected together in Anukramanis.
- 2 Certain Brāhmaṇas are called Anubrāhmaṇas, a name occuring even in Pāṇini (IV, 2, 62). The small Brāhmaṇas are Anubrāhmaṇas. Even the Taittirīya Brāhmaṇa contains some Anubrāhmaṇas. I, 6 11, 1 says अनुझाझणं च भवति, Mādhava in his Bhāshya on T. B. has अथ राजस्यस्यानुझाझण्म.
- 3 Of these smaller Brāhmaṇas, Mantra Brāhmaṇa with two Prapāṭhakas and sixteen Khaṇḍas is also called Chhāndogya Brāhmaṇa. It gives Mantras only from the Vedas. (The Upanishad probably belongs to this Brāhmaṇa). From S'ankara's remark on Vedānta Sūtra 3-3-25, it seems that he treats this Upanishad as

forming part of the Tāṇḍya Brāhmaṇa (तारिकार कृति:). There is a Daivata (Sāmaveda) Brāhmaṇa, published by Jīvānanda Vidyāsāgara. There is a Chhando-vichiti Brāhmaṇa, referred to by Pāṇini in Gaṇapātha 4-3-43 wherein descriptions of chhandas are given. There is an Ārsheya Brāhmaṇa containing 3 Prapāṭhakas and 82 Khaṇḍas wherein the Rishis of Sāmaveda are given. The Sāmavidhāna Brāhmaṇa (published by Burnell, London) consisting of 3 Prapāṭhakas and 25 Khaṇḍas gives the Viniyoga or uses of the several Sāmans, some of which are for Abhichāra (magic). There is a Sanhitopanishad published by Burnell (Mangalore) which mentions Araṇyageya and Grāmageya gānas. Finally, there is a Vañiśa Brāhmaṇa of 3 Khaṇḍas which gives the Vaṃśas of Sāmaveda teachers.

- 4 Keith in his 'Rigveda Brāhmaṇas' argues that Aitareya Brāhmaṇa is old because it has no allusion to S'vetaketu or to Āruṇi (p. 48). But in 6, 30 Bulila Āśvatarāśvi is mentioned who was their contemporary. (We may urge further that non-mention is no test whatever either way, unless mention is necessary). The Aitareya Brāhmaṇa and the Āśvalāyana S'ākhā are found in the whole of the Deccan (तुझा कृष्णा तथा गोदा समादिशिखरावधि। आ आन्नादिपर्यन्तं बहुआश्रकायनी॥ टी. चरण-ब्यूह्); while in North Gujarāt is found the S'ānkhāyana. S'ākhā (उत्तरे गुजेरे देशे वेदा बहुच इंरित:। कोषितिकिनाझणं च-ditto).
- 5 S'añkara quotes Kaushītaki Brāhmaṇa on 1, 2, 28 and III 3, 10 of Vedānta Sūtra.
- 6 According to Weber, the S'atapatha of 14 Kāṇḍasconsists of one hundred chapters containing 438 Brāhmaṇas, having in all 7624 Kaṇḍikās. The Kāśhikāvritti
 on Pāṇini IV 2-62 mentions Shashthipatha which may
 be explained as the name of the first nine Kāṇḍas
 which really contain 60 chapters, thus showing that the

10th to 14th Kāṇḍas are latter additions, a conclusion which we have already accepted, with this difference that the latter portion begins with the XI Kāṇḍa and not the 10th. The Mahābhārata story mentioning how Yājñavalkya composed the S'atapatha states that he composed it including Rahasya, Sangraha and Pariśesha (सरहस्यं ससंप्रदे सपरिशेष्य) The tenth Kāṇḍa is called Agnirahasya, the eleventh contains Sañgraha and 12th and 13th are Pariśesha, the 14th containing the Upanishad. Datta points out that S'ankara on III 3, 19 quotes बाजसनेपिशाखायामिग्रहस्ये शाण्डिल्यांवश्याम्, thus showing that the 10th Kāṇḍa was known even to S'ankara as Agṇirahasya. But he calls it S'āṇḍilyavidyā and thus treats it on the same level as Kāṇḍas VI to IX be longing to S'āṇḍilya.

7 The S'atapatha in XI 5, 1, 10 refers to Rigveda Samhitā in the sentence तदेतदुक्तप्रत्यंत पञ्चदशर्च बहुन: प्राहु:।, describing the dialogue between Urvasī and Pururavas; but the sukta X 95 in the Rigveda contains 18 riks and not 15". We may suggest the explanation that this late Kāṇḍa of the S'atapatha refers to a S'ākhā version different from the one we possess.

8 The Mādhyandina S'ākhā is found in Anga, Vanga Kalinga and Gujarat. Ujjain Pandits, Harisvāmin and Uvaṭa, wrote Bhāshyas on this version. Further S'atapatha XI 5, 1 gives the whole story of Urvaśī and Purūravas in a somewhat new form and probably the verses 16-18 in the Rigveda sūkta are not required for this story.

9 Harisvāmin wrote his Bhāshya on Mādhyandina S'atapatha in the 1st century B. C. (श्रीमतोऽबन्तिनाथस्य विकासकेस्य भूपते:। धर्माध्यक्षो इरिस्तामा व्याख्यच्छातपथी श्रुतिम्). This may apply to Gupta Vikrama, but the word Gupta, we think, would not have been kept gupta. This Hari-

svāmin is quoted by Karka in his Bhāshya on the S'rauta Sūtra of Kātyāyana in VIII 19. **V**vaṭa wrote his Bhāshya on the Vājasaneyi Samhitā in the eleventh century A. D. (मंत्राणा कृतवान् भाष्यं महीं भोज प्रशासित). Nīlakaṇṭha, the well-known commentator of Mahābhārata wrote a Bhāshya on the Kāṇva S'atapatha.

10 This Kānva S'ākhā version of the S'atapatha according to Caland consists of 17 Kāndas, divided into 104 chapters. The number of Brāhmanas is 446 and of Kandikās 5865, as compared with 7624 of the Mādhyandina version. The difference, however, in reality is very minor.

Datta does not give the province where this S'ākhā prevails; but from Charaṇavyūha and other recent works we find that it prevails in Mahārāshṭra alone. We also find that the letter $\varpi(!)$ is used in this S'ākhā as in the Rigvedic S'ākhā, a peculiarity of Mahārāstra recitation, as stated already, borrowed from the Dravidians of the South.

11 The Taittirīya Brāhmaṇa has in the beginning a Kāṇḍānukramaṇī which mentions the Kāṭhakas added. These thus seem to be old and they include the Purushamedha. It may be said, however, that this Anukramanī itself is a late addition.

The Taittiriya S'ākhā is found in Andhra up to the Godāvari and the sea.

Other S'ākhā Brāhmanas of the Black Yajurveda are 1 Kāthaka, 2 Kālāpaka, 3 S'vetāsvatara, 4 Maitrāyanīya, 5 Jābāla, 6 Khāndikeya and 7 Aukheya. The Mahābhāshya has the following sentence (IV 2, 10) पाने आमे काटकंच कालापकंच प्रोच्यते.

12 The Tandya Brahmana has 347 Khandas. It mentions many S'akhas such as Bhallavi, Trikharva and Karadvisha and the Bhallavi Brahmana appears to have thad svaras. In parts of India north of the Narbudda

are found the Mādhyandini, S'ānkhāyani, Kauthumi and S'aunaki S'ākhās.

The Shadvimsa has 48 Khandas; but Sāyana wrote Bhāshya on the last two Khandas only. I 1, 8 contains comment on the Subrahmanya Rik mentioned in S'atapatha III 3-4-17. The priests are described as wearing red turbans and having red garments in 3, 8, 28. The morning and evening Sandhyā is mentioned in 4, 5, 8. The four Yugas are mentioned in you चात्रमतिभेषा सिनीवाठी द डापरे। खावीयां तु भवेदाका कृतपूर्वे कुहुभवेत् (4, 6, 5).

13 The Jaiminiya Brāhmaṇa is divided into 3 parts with 360, 437 and 385 Khaṇḍas (total 1182). Its other name is Talavakāra. Kenopanishad is a part of this Brāhmaṇa. The sentences are nearly the same as in Tāṇḍya, but it treats of more subjects than the Tāṇḍya. This is supposed to be composed by Jaimini and his pupil Talavakāra. It is prevalent in Karnatak and many copies are found in Trivandrum (Travancore) also.

14 Other Brāhmaņas referred to in various works are:— Hāridravika Brāhmaņa in Sāyana and in Mahābhāshya IV 2, 104, 2 Abhūraka Brāhmaņa in Taittirīya Prātišākhya, as also 3 Kankati and 4 Gavaya: 5 Bhāllavin and S'ātyāyanin in a commentary on Pāṇini. 6 Kālabavi and 7 Rauruki in Gobhila Grihyasūtra, 8 Tumburu, 9 Āruņeya, 10 Saulabhi, 11 Saulavi, 12 Māshaśaravi and 13 Kāpeya mentioned by Vādhula Sūtra. There is a Bashkala and a Māṇḍukeya Brāhmaṇa as already noted. (To what Vedas these were attached we cannot say.)

15 The metals were fully known in this period; gold, silver, tin, iron etc., with some of their properties (उन्पेन सुनर्ण सन्दर्भात् &c). Geometry was studied for the construction of altars. Astronomy naturally was studied and geography also. From Vinasana, the centre of Kurukshetra, the distance of Plaksha Prasravana.

is given as 44 Aśvinas (ব্ৰুপ্ৰেন্থিবাধিনানি-A. B.). Svarga is represented as distant by a thousand of the same measure (A. B. 2, 10). 'Thousand' perhaps stands here for thousands, if Svarga was looked upon as not being on the earth. The earth was believed to be surrounded by sea. It was known that the sun really never sets.

16 There are frequent references in the Brāhmanas to the four castes and their characteristics. They are thus mentioned in S'ata. V 5, 4, 9. Brahman (Veda) itself is Brahmana (S'ata. V 1, 5, 2). Brahmins abstained from liquor अशिवं वा एव मक्षी यत्सुरा ब्राह्मणस्य (S'ata. XII, 8, 1, 5). Kshatriyas and Vaisyas become Brahmins when they are Dikshita or ordained for sacrificing (A. B. VII 23 and S. B. III, 2, 1, 40). The weapons of a Brahmin are the sacrificial instruments एतानि वे नाहाणायुधानि यदानायुधानि (A. B. VII 22). Kshatra was Rāshtra or nation (A. B. VII 22) and where the Kshatriyas follow the Brahmins that nation prospers (A. B. VIII, 9). The weapons of a Kshatriya are the horse-chariot, the coat of mail, the bow and the arrow; एतानि क्षत्रस्यायुधानि यदश्वरथः कवचे इषुधन्वम् (A. B. VII, 9). The nations are the Visah or Vaisyas. (A. B. 8, 26). We have already stated that the Brahmin was above the Rashtra which was formed by the Kshatriva warriors and the Vaisya agriculturists. S'ūdras were below the nation, being ordained for service. They prospered by Pādāvanejyā, being created from the feet (Tandya VI, 1, 11). They had not the right to perform the sacrifices (T. S. VII, I, 1, 6). But Kavasha Ailūsha was originally a S'ūdra who composed a sukta and became a Rishi (A. B. VI, 5).

IX ARANYAKAS

Aranyakas, with Upanishads usually included in them, are appendices, so to speak, of the various Brāhmaṇas. They are called so, according to orthodox opinion, because they are to be taught in Aranya or forest or to men who have retired into forest. Thus Sayana says in the beginning of his Bhashya on the Aitareya Aranyaka अरण्य एव पाठ्यस्त्रादारण्यकमितीर्यते ।. This word, however, is not explained by Pāṇini who gives a different meaning altogether of this word, viz :- a man who lives in a forest, a forester in fact. Pānini does not also use the word anywhere in the sense of a work, as he uses the word Brāhmana, though it is not explained by him; nor is the word used in any of the Aranyakas themselves, as the word Brāhmana is in the Brāhmanas. We find that Vararuchi gives a vārtika on this sūtra and adds that the word Aranyaka is also used in the sense of study or path or elephant. Thus it seems very probable that this term arose after Panini and before Vararuchi in the sense of a work to be studied in a forest.

The oldest Āraṇyaka is the Taittirīya Āraṇyaka which probably set the example for the formation of Āraṇyakas or philosophical appendices to the other Brāhmanas.

We will speak in this chapter of these Aranyakas in order of time reserving the Upanishads which form the most important part of them, for separate treatment in the next chapter. These Aranyakas and Upanishads are in fact treated as parts of Brāhmanas. Gopatha calls them Rahasya or esoteric treatises.

I Taittiriya Āranyaka

This Aranyaka consists of ten chapters or Prapāthakas, commonly called Aranas, which are named as follows from the words with which they begin: 1 Bhadra, 2 Saha vai, 3 Chitti, 4 Yunjate, 5 Deva vai, 6 Pare, 7 Sikshā, 8 Brahma vidā, 9 Bhrigu and 10 Narāyanīya. 7, 8 and 9 form the Taittirīya Upanishad and 10 is also an Upanishad; but it is of a later date and is indeed treated as Khila. These Prapathakas or chapters are divided into Anuvakas, the total of which for the nine chapters is 170. The number of sentences in each Anuvāka is given in tens as in the Brāhmana of the Taittirīyas; and the final words of each ten is given at the end of the Anuvāka with the number of sentences remaining over. The chapters contain verses the words in which are accented, as well as the words in prose sentences. These verses are often taken from the Rigveda, as we shall show presently. Rigveda was still the Veda of all Brahmins.

The first chapter Bhadram relates to the Arunaketuka fire and mentions in one place Vyāsa Pārāśarya. The second Saha vai is about Svādhyāya and contains a reference to the land between the Ganges and the Jumna, as a holy land where Munis reside. Strangely enough, we come across the letter æ (1) in this Arana यहेव देवहेळनम् (II 7) which does not occur anywhere else in the Black Yajurveda. The third chapter Chitti gives mantras for the Chātur-hotra Chitti. One of these happily describes the sun as holding the whole universe; सप्त युक्तन्ति रथमेकचक्रमेको अश्वी क्हति सप्तनामा । त्रिनाभिचकमजरमनर्व येनेमा विश्वा भुवनानि तस्थुः॥ The disc of the sun is the one wheel for his chariot and it has three navels, probably the six seasons in three pairs. The fourth chapter gives mantras for Pravargya. It mentions Kurukshetra and Khāndava, so well-known in the Mahabharata (कुदक्षेत्रं वेदिरासीत् । तस्यै खाण्डवो दक्षिणार्ध आसीत् । तूर्ण उत्तरार्धः). This gives the correct position of Khāndava forest as being the southern portion of Kurukshetra, the plain in which Delhi is now situated. This Arana gives several mantras of the nature of Abhichāra which perhaps shows that the Atharvaveda had not yet been compiled. Thus IV 27 gives खद् फट् जिह । श्रिन्दि भिन्दि। &c (इति करा वानः) and IV37 gives a verse ending with खण फण म्नसि. IV 38 indeed says घोरेण त्वा भृगूणां चक्कषा प्रेक्षे । रीद्रेण त्वा अङ्गिरसां मनसा घ्यायामि । indicating that Bhrigu and Angirasas were magicians who used spells for

doing evil. Mantras for counteracting the effects of evil omens such as the bad cries of eagles, of jackals, of दीर्घमुखी दुईणू, काकस्त्री, गर्दभी वा, of उल्क, of one siezed by an evil spirit (भूतोपसुष्ट) are also given (IV 29, 30). IV 36 gives mantras for destroying vermin (東阳). The sixth chapter called gives mantras required for Pitrimedha or the burning of the dead, including उदीर्घ नार्यमिजीवलोकम्, and other mantras from the Rigveda. These contents of the six Aranas will show that they are not all intended for those retired into forests. some clearly being for ordinary family life. The seventh Arana Śikshā is a grammatical treatise and can certainly not be described as a work fit to be taught in forests, while the 8th and the 9th are philosophical and together are treated as the Taittiriva Upanishad, one of the important ten, as will be noted in the next chapter.

II Aitareya Āranyaka

We next come to the Aitareya Āraṇyaka attached to the Rigveda which must have followed the Taittirīya Āraṇyaka soon. It consists of five chapters which are treated as separate Āraṇyakas, like the ten Araṇas of the Taittirīyas. Their beginnings are recited separately at the time of the Rik-Śrāvaṇī, while the whole Aitareya Brāhmaṇa is disposed of by the single initial sentence of its first chapter viz. अभिषे देवानमक्सो विष्यः

परमः. This shows that the five chapters of the Aitareya Āranyaka are looked upon as separate works. Their beginnings are as follows:— 1 अध महानतम्, 2 एव पन्था एतत्कर्म, 3 अथातः सहिताया उपनिषद, 4 विदा मधन्व विदा and 5 अथ महानतस्य पंचित्रंशतिं सामिधेन्यः. These are all in prose which in the fourth only is accented. Verses from the Rigveda are frequently quoted with the words तद्क्तमृषिणा. New verses are also to be found introduced with the words तदेते स्रोकाः.

These five Aranyakas are divided into 18 chapters subdivided into Khandas. The first Aranyaka describes the Mahāvrata which is a part of Gavāmavana described in A. B. III. second, in chapters one to three, details the Uktha or Nishkevalya Sastra, the midday Sastra of the Mahāvrata and then treats of Prāna and Purusha. The Aitareya Upanishad comes next as chapters 4 to 6. The third Aranyaka treats. of Samhitā, Pada and Krama texts and then of vowels and semivowels &c. This treatment is much earlier than that of Yaska and of the Pratiśākhyas. It quotes Śākalya and Māṇḍūkeya. Keith gives hence 600 B. C. as the date of this But Yāska himself must be placed. Aranyaka. about 1000 B.C., as will be shown in section III. The fourth Aranyaka विदा मघवन विदा is a very small one and gives the few (9) Mahānāmnī verses to be recited on the fifth day of the Mahāvrata ceremony. And the fifth or the last Aranyaka gives further details about the Nishkevalya Sastra.

recited at midday in the Mahāvrata. Thus these works by their contents are clearly of the nature of appendices to the Aitareya Brāhmaṇa.

The first three books by tradition are attributed to Aitareya himself, the author of the Aitareva Brāhmaņa, while the fourth is attributed to Aśvalāyana and the fifth to Śaunaka, teacher of f Aśvalāyana. This f Aśvalāyana may be the author of the Śrauta Sūtra. The author of the Grihya Sūtra is, however, probably his descendant. Keith looks upon Saunaka (who is also the author of Brihaddevatā) as later than Yāska and earlier than Pāninī. But Saunaka, author of the fifth Aranyaka, need not be the author of the Brihaddevatā. It must be remembered that Saunaka, Aśvalāyana &c are gotra-names and, therefore, do not always indicate the same person. Keith has pointed out that the first book as also the second mention Mahidasa Aitareya and, therefore, are not probably his. The first book does not contain an explicit reference, but the second, in I 8, makes a clear reference to him (एतद स्म तदिद्वानाइ महोदास ऐतरेय:). The word विद्वान here makes it certain that Mahidasa does not mention himself, as authors sometimes do, and the second Aranyaka is surely not his.

We have already stated that the Aitareya Aranyaka in book III refers to the three modes of reciting the Rigveda, viz. the Samhitā, Pada, and Krama pāthas, respectively called Nirbhuja,

Pratṛiṇa and Ubhayamantareṇa in it (निर्मुज, प्रत्ण, उभयमन्तरेण III 1, 3). The same Āraṇyaka also discusses several grammatical matters such as णकार, and पकार and mentions several grammarians such as Śākalya and Māṇḍūkeya as also Ṣishis named Kāvasheya. It is, therefore, to be questioned whether this third Āraṇyaka really belongs to Aitareya Mahīdāsa who is mentioned in the Chhāndogya Upanishad as an Āchārya who had reached the age of 116 years. Śākalya, the grammarian, however, is a very old author. He may be the same as the Śākalya reputed to be the author of the Pada text of the Ṣigveda and the author of this Āraṇyaka also.

In this Āraṇyaka we have a description of the Veda-Purusha of whom Rigveda, Yajurveda and Sāmaveda are shown as limbs (III). The omission of Atharvaveda is puzzling; for if the Atharvaveda is mentioned already in the Chhāndogya Upanishad as a recognised Veda, it ought to have been mentioned in this Āraṇyaka which mentions Śākalya and Māṇḍukeya and which consequently cannot be older than Chhāndogya. The omission may, however, be treated as accidental.

Keith looks upon the Aitareya Āraņyaka as dated about 600 B. C., as shown above; but its first chapter may be as old as the Aitareya Brāhmaṇa, i. e. about 2500 B. C., and the work of the same author, viz. Mahīdāsa Aitareya.

III Sankhayana Āraņyaka

The Sānkhāyana Āranyaka is attached to the Sānkhāyana Brāhmana, also called Kaushītaki; but the Aranyaka goes under the single name of Sānkhāyana. It follows the Aitareya Āraņe yaka generally. It contains 15 chapters divided into 137 Khandas. The third to the sixth chapters form the Upanishad, which, however, goes by the name of Kaushitaki. The first two chapters relate to Mahāvrata and are looked upon as Brāhmanas. There is a reference to actual Atharvaveda in chapter XIV which is interesting: ऋचां मूर्धानं यज्ञषापुत्तमाङ्गं साम्नां शिरोऽथवेणां मुंडपुंडम् ॥ &c has four words meaning the same thing, viz. head; but munda has a slang appearance and perhaps speaks detractingly of the Atharvaveda. But it is not quite certain if the compiled Vedas are referred to here, though it is nearly certain that the Atharvaveda was already long compiled. Chapter VI mentions Usīnara, Matsya, Kāsī, Videha and Kuru-Pāñchāla and chapter XIII borrows profusely from the Upanishads, chiefly Brhada. ranyaka. The work, therefore, is very modern, an inference supported by the Vamsa which states "We have studied this from Gunākhya Sānkhyāyana" (गुणारूयसांखायनादस्मामिरधीतम्). The work thus admittedly by a pupil of Sankhayana or even of his descendant. The Acharyas then mentioned in the ascending order are :- Kahola Kaushītaki,

Uddālaka Āruņi, Priyavrata-Somāpi, Somapa, Soma-Prātivesya, Prativesa, Brihaddiva &c. The combination of Kahola with Kaushītaki is strange as they are distinct Āchāryas.

IV Other Aranyakas

The Bṛihadāraṇyaka of the White Yajurveda is an Upanishad and not an Āraṇyaka pure and simple, though it is called so. It has six chapters divided into 44 sections called Brāhmaṇas subdivided into Kaṇḍikās. The last two chapters are considered as Khila. The first chapter is taken from Śatapatha Kāṇḍa X, while the other chapters form Kāṇḍa XIV of the Śatapatha. Of this Upanishad, improperly named Āraṇyaka, we will speak in detail in the chapter on Upanishads.

The Maitrāyaṇīya Śākhā of the Black Yajurveda has a Maitrāyaṇīya Āraṇyaka called Bṛihadāraṇyaka also (Datta). It contains the Maitrāyaṇīya Upanishad. Of the Āraṇyaka portion we cannot speak in detail as it is not before us.

There is a Talavakāra Āraņyaka as there is a Talavakāra Brāhmaņa attached to the Sāmaveda. It has four chapters divided into Anuvākas subdivided into Khaṇḍas. The tenth Anuvāka of the fourth chapter is the Talavakāra Upanishad. Many mantras are well explained in this work.

There is probably no Āraṇyaka attached to the Atharvaveda, though there are many Upanishads of this Veda; since these are earlier in date than the Gopatha Brāhmaṇa, it may be taken that these Upanishads separately existed and are not parts of any Āraṇyakas.

Finally, with regard to the age of the Āraṇya-kas, it may be stated that the several Araṇas or chapters were compiled at different times. Some of them are obviously later than the Chhāndogya and Bṛihadāraṇyaka Upanishads from which they copy copiously statements and even sentiments.

The Upanishads which T. A. and A. A. contain are also earlier than their other chapters. A few, however, are in the strain of Brāhmaṇas and are, therefore, very old. We think that the age of the Āraṇyaka chapters may be taken to be from 2500 to 1500 B. C. and it may even be believed that the several Araṇas or Brāhmaṇas, as they must have been called, were put together even later than Pāṇini, who does not know of any Vedic treatise called Āraṇyaka. We will indicate the probable dates of individual chapters or Araṇas in the following note in which we also give their contents in more detail.

Note 1:- The Name Āraņyaka

This word arose, as stated already, after Pāninī and before Vararuchi. The sevaral chapters of the Taittiriya and Aitareya Āranyakas are always looked upon as separate, their beginnings being recited separately on the S'rāvanī day. They thus seem to have been originally treated as separate appendices. They are called Aranas by the Vaidikas of both the Vedas. This word is explained by Vasudeva S'āstri Abhyankar of Poona as a short form of Aranyaka which, however, seems to be doubtful. Arana may mean a philosophical treatise from Ri to go and thence to know. Although this word Arana is not used in Vedic literature like Brāhmana, we have the line नहाण: उद्राप्त in T. A. I 12, which indicates that Arana may mean a philosophical work. Āranyaka thus might be explained as a collection of Aranas, though not by any sūtra of Pāninī, the word plainly coming into use after The ostensible derivation given by Vararuchi and Sāyana is not wholly borne out by the contents of the Aranyakas. In T. A. I 32, no doubt, we have the dictum अरण्येऽधीयीत. But this is a special provision for this chapter, not for all. In II 12, the provision is made that S'aucha Anheya prescribes that Svādhyāya should be recited in the village and not outside (ग्रामे मनसा स्वाध्यायमधीयीत दिवा नक्तं वा इति ह स्माह शोच आन्हेय:). In the third chapter Chitti, we have the Purusha-sukta and there is no provision and there can be no provision that the sukta should be learnt or recited in a forest. But the idea that the Aranyakas should be learnt or recited in a forest, though recent, is now strongly rcoted and it may be stated that Vaidika Brahmins at present learn the Aranyakas in a templeand rarely recite it in Vedic recitations.

Note 2:- Further particulars about the Āranyakas

(1) Taittiriya Aranyaka

1. The first chapter or Arana called Bhadra contains the following śloka in Anuvāka 2 ''स्मृतिः प्रत्यक्षमैतिह्यम् । अनुमानश्चतष्टयम् । एतरादित्यमण्डलम् सर्वेरेव विधास्यते । Smriti, Aitihya and Anumana are words which indicate a late date for this book. There is here a highly philosophical description of Kāla in which the following line अप्टिनाञ्जिशतमि च (15) is strange and almost inexplicable. S'ataghnis could not have been known presumably before the Greek invasion under Alexander. The eight names of the sun given in I 7 are new, viz. आरोग, भ्राज, पटर, पतंग, स्वर्णर, ज्योति-षीमत्, विभास with the eighth काइयप (this sun alone resides on Mahā-Meru). 'The Achāryas believe the seven Sūryas to be the seven Pranas in the head. पंचकर्ण वाहस्यायन and सप्त-कर्ण प्राक्षि have seen the seven Suns but not the eighth, being unable to go to Mahameru.' सप्तिनिजः सूर्या इत्याचार्याः is another explanation. It does not appear whence the Riks quoted here are taken; but चित्रं देवानामुद्रगादनीकम is clearly from the Rigveda. Vaisampavana holds (नानालिङ्गलाहतनां नाना वर्धलम्) that there were thousands of Sūrvas; 'but Rishis believe they are eight above the one we see'.

Philosophical questions are asked, one of which is "By whom are the worlds held". The answer is "Vishiu holds them according to Vatsa Rishi" (विष्णुना विश्ते भूमी इति वत्सस्य वेदना). "By what power and how?". The answer is नाताद्विष्णाविरुमाहु:. In I 9 eight names of Agni are given (अभिन्न जातवेदान्न &c) and these are said to be the eight Vasus on earth. Eleven forms of lightning are then mentioned and he who knows them does

not die by the same. But Pārāśarya Vyāsa desired death by lightning (विद्युद्धभेवाई मृत्युभेच्छम् I 9). Then eleven Gandharva names are given which are also in reality names of Agni. And there are Devas, Mahādevas, Raśmis and Garagiras (?). The Āraṇyaka Ācharyas are now full of the Brahman theory and reduce all deities to it.

असतः संच तत्रक्षः । ऋषयः सप्तात्रिश्च यत् (I 4) reminds one of the Upanishad असद्वा इदमम आसीत् ततो वे सदजायतः and of the Bhagavadgīta line महर्षयः सप्त पूर्वे येषां लोक इमाः प्रजाः । The well-known Gāyatrī तत्सवितुर्वरेण्यं etc. is found here and is imitated in the next verse तत्सवितुर्वृणीमह वयं देवस्य मोजनम् । तुरं मगस्य धीमहि. Similarly नाम नामेव नाम मे, नपुंसकं पुमागस्ययिम reminds one of the Chhāndogya sentence नामेव तत् or त्वं स्त्री त्वं पुमान् त्वं कुम र उत वा कुमारी. Also अन्धा माणिराविन्दत् तमनङ्गुलिराव्यत्, of अपाणिपादो जवना प्रहाता &c. ऊर्ध्वमूलमवाक्शास्व यक्ष यो वेद संप्रति is the precursor of the Bhagvadgīta verse ऊर्वगूलम् &c

मेधातिथेमेंष, वृषणश्वस्य मेने, गौरवस्कन्दिन्, अह्ल्याये जार, कोशिक ब्राह्मण गौतम बुवाण इन्द्र (I 12) reminds one of the Purānic stories concerned. अष्टयोनिमष्टपुत्राम्। अष्टपत्नीमिमां महीम्। (I 13) is probably the origin of the later अष्टपुत्रा मन blessing instead of the Rigvedic दशपुत्राः. अष्ट पुत्रासो अदितेः। मित्रश्च वरुणश्च धाता चार्यमा च। अश्च भगश्च। इन्द्रश्च विवस्वाश्चरेयेते।. Instead of twelve sons, Aditi has now eight.

Four Narakas or hells are spoken of as विसमी in southeast, अविसमी in south-west, विषादो in north-east and अविषादी in north-west. We do not hear of these in later times.

यो अपां पुष्पं वेद पुष्पवान् भवति &c (I 22) and आपो वा इदमा-सन्सिल्लिमेव स प्रजापितिरेकः पुष्करपणें समभवत् &c (I 23) remind one of Upanishads and Purāṇas. अन्तरतः कूर्मभूतं सर्पन्तम् is the precursor of the legend of Kurmāvatāra of the Purāṇas. या विपुषो परापतन् । ताम्योऽसरा रक्षांसि विशाचाश्रोदतिष्ठन् (I 28) is not the story of the Brāhmanas which look upon Asuras and Devas as cousins, but of the Purāṇas. The Vratas or vows expounded in I 26 are those given in the Grihya Sūtras and Smṛitis; वर्षति न धावेत्। नाम् मुत्रपूरीषं कुर्यात् । न निर्धावेत् । न विवसनः स्नायात् । न पुष्करपर्णानि हिरण्यं चाधि-तिष्ठेत् । न कूर्मस्याक्षीयात् । नोदकस्य ।

उत्तिष्ठते मा स्वस् । अभिमिच्छध्वं भारताः । Bhārata is applied here to the Ritviks; but it means really, as explained already, all Aryan inhabitants of the Bhārata land. 'अष्टचका' नवद्वारा देवानां पूर्योध्या is a highly poetic and metaphoric description of the human body, the epithet अयोध्या being particularly suggestive of the story of Rāma.

Late marriages seem to be general, as unmarried pregnant girls are looked upon as sinful; कुमारीषु कनीनीषु जारिणीषु च ये हिता: proscrib's even bastard girls, though married (I 27). See also यन्कुमारी मन्द्रयते (clitto).

In I 31 the city of Kubera is described as follows:— सुदर्शने च कौंचे च मेनाग च महागिरो। सतद्वाद्वारगमन्ता संहार्य नगरं तव। which Sāyaṇa explains as a city on each of the great mountains Sudarsana, Krauncha and Maināga (Maināka in Puraṇas) with one hundred gates, castles and big streets.

इति मंत्राः कल्पोऽत ऊर्ध्वम् (I, 31) mentions कल्प as meaning a ritual provision and after this is actually given the ritual in which oblations are to be offered to Kubera.

The book ends with special Niyamas to be observed, such as bathing thrice, fasting two days, eating food obtained by begging and giving oblations specially to be offered. This is the precursor of the Prāyaschittas prescribed in Smritis.

2. In Arana II called 'Saha vai' we may note the very first sentence सह व देवानां चाहराणां यहाँ प्रतावास्ताम्। Here, as in the Brāhmaṇas, Devas and Asuras are put together and the Asuras perform a sacrifice. They are thus distinct from Rākshasas who never sacrificed, and who, on the contrary, obstructed them. Subsequently Asurua and Rākshasas were closetted together.

The Rakshasas were also opposed to Sun-worship.

II 2, 2 has रक्षांसि पुरोऽनुवाक तपोत्रमातिष्ठन्त...आदित्यो नो योद्धा ...

इति तस्माद्विष्टन्तमादित्यं रक्षांसि योधयन्ति याषदस्तमन्वगात् तानि इ वा गाय-

ज्याभिमंत्रितेनाम्मसा शाम्यन्ति।. This is the same story as inthe Purāṇas; nay we further have here that this water thrown up throws the Rākshasas into मन्देहारणद्वीप.

II 2 also prescribes meditation of the sun at the morning and evening Sandhyā, because the sun is Brahman itself. उद्यन्तमस्तं यन्तमादित्यमिमध्यायन् कुर्वन्त्राह्मणो विद्वान्सकलं भद्रमश्चतेऽसावादित्यो बह्मित ॥

In II 3, mantras are prescribed for Küshmända Homa which are plainly Rigvedic, the first यहना देवहेळनं using even ळ which is foreign to the Yajurveda. These mantras must be traced. In II 4 debts of gambling are treated as so imperative that their non-payment takes the defaulter bound to the Yamaloka. saras, Ugrampaśyā and Rashtrabhrit, are prayed for paying them off! अमिर्ऋषिः पवमानः पांञ्चजन्यः पुराहितः (II 5) makes the fire Rishi, Purohita and Panchajanya which is explained by Sāyana as neganing born among five peoples (निषादपञ्चमा वर्णी:). In II 7, Küshmända Homa is prescribed for expiation of sins like Bhrūnahatyā &c. and the story is related that Vatarasana Rishis, described here as S'ramana, which Sāyana explains as meaning Tapasin, once entered Küshmandas (gourds) and so on. In II 9 Brahmayajña or Svādhyāya is praised.

It is to be noted that for Svādhyāya all the four Vedas are prescribed, viz. Rik (like milk oblation), Yajuḥ (like ghee), Sāman (like Soma), Atharvāngirasaḥ (like honey) as also Brāhmaṇas, Itihāsa, Purāṇa, Kalpa, Nārā-śaṃsa and Gāthā (like flesh oblations). Atharvaveda seems to have been already compiled and to have attained the highest position as its recitation is compared to honey oblations. Kalpas too seem to have been formulated, a word not occurring in Chhāndogya in this connection. It seems that this Araṇa is later than even Kalpas and may be placed in the beginning of the Sūtra period. II 10 mentions the five Yajūas (to gods, manes, Bhūtas, men,

and the Vedas) in the form of Agnihotra, Shrāddha, Bali, feeding of Atithis and Svādhyāya recitation. The whole ceremony of Svādhyāya is described here and it is first stated that the reciter should go out of the village to a place whence the village huts are not seen, either east, north, or north-east. But in II 12 we have the opinion of S'aucha Ahneya that Svadhyaya may be recited in the village either during day or night, but in mind; nay it is further added that it may be recited loudly and while standing, lying, walking or sitting; at noon it should be recited loudly. In II 17, Svādhyāya recitation in a forest is prescribed as a penance for sacrificing for a prohibited person. त्रिषत्या हि देवाः (II 18) is interesting; a thing thrice done or said is believed in by the gods. Lastly नमो नमो गंगायमुनयोर्मुनिन्यश्च नमः (II 20) shows that the centre of religion had shifted from the Sarasvatī region into Antarvedi. This is probably the region where this Arana was composed.

3. In the third Arana 'Chitti', are given the mantras for Chāturhotra sacrifice described in the Taittirīya Brāhmana III 12. The whole sacrifice is symbolical, beginning with Chitti or the mind which is to be the Sruk or sacrificial ladle. The mantras are mostly new, though some may be traced to the Rigveda such as पतंगमक्तमसुरस्य "Dakshinā, Uttāna Angirasa may take thee" shows that Dakshinā had come to be ridiculed (उत्तानस्वां-गिरसः प्रतिगृह्णातु III 10). However some strange Dakshinās for different gods at this sacrifice are prescribed, such as a slave for Prajāpatī and an elephant for the Himālayas. Naturally the philosophical Purusha-sūkta is given herein as III 12. One important change in it deserves to Before the last verse यहान यहां &c are added three more verses, viz. वेदाहमेतं पुरुषं महान्तमादित्यवर्णं तमसस्तु पारे (this line appears in the White Samhita), सर्वाणि रूपाणि विचित्य थीरः नामानि कुत्वाऽभिवदन यदास्ते ॥ and धाता पुरस्ताचमुदाजहार।

शकः प्रविद्वान् प्रदिशश्चतसः। तमेव विद्वानमृत इह भवति। नान्यः पन्धा अयनाय विद्यते॥ The last line is plainly borrowed from Kena Upanishad and it shows that this verse is a new one and that this Arana may be later than Kena. The White Samhitā line instead of the last is तमेव विदिश्वाति-मृत्युमेति नान्यः पन्था विद्यतेऽयनाय॥

4. Commenting on the fourth Arana (यंजते) Sāyaṇa observes "In the third Arana Brahmagni and Brahmamedha are described; now in the fourth Pravargya mantras are given and their explanation is given in the fifth." The mantras are generally new ones and alliterations and derivatives from the same verb are very often used, e.g. प्रमा असि प्रातेमा असि समा असि विमा असि उन्मा असि. इडा, अदिति and सरस्वती are names of cows (IV 8). There are Abhichara mantras in 10 (i. e. अमुच्य त्वा प्राणे सादयामि). Some vows are interesting such as संबत्सरं मांसं नाश्चीयात् । न रामाम्पेयात् । न मृण्मयेन पिनेत. In 19 the names of the five years of a cycle are given viz. संवत्सर, इदावत्सर, पारेवत्सर, इद्वत्सर, and वत्सर. In 20 the dark fortnight is said to be given. In 24 and 25 are given the names of Maruts in the महद्रण which strike one to be as fanciful as the names of Muhūrtas given in T. B. III. Mantras against evil-doers and bad omens are given, as for discovering a thief (26), against wolves killing calves. against मंग्रेडक, दुईणु (a she-crow,) against evil spirits who have seized a person (35) or against worms (36). gic sacrifice with the enemies' blood is also given as also curses against them as ब्रह्मणा त्वा श्रामि (37) or शिमिजावहि (?) to be used in their cowpens to kill their cows. It is strange that such Abhichara mantras are found in this Arana, philosophical as it is.

(II) Aitareya Āraņyaka

The first Aranyaka speaks of Atman as Ekavimśa (twenty-first) an idea of the Achāryas leading up to that of the Sankyas who called it the twenty-fifth. Brahma is said to be Vāsukra (?) (2) Bharadvāja is said to be the most learned Vedic scholar and very long lived. भरद्वाजो ऋषीणांमनूचानतमः दीर्घजीवी &c. (3) वयांसि वंगा वगधाश्चरपादाः (II) is not well understood. But वगधाः probably stands for मगुधाः and चेरपादाः refers to Cheras of the south. We know that the Aitareya Brāhmana itself speaks of Andhras and indicates Aryan advance into that country. The Aitareya Aranyaka, no wonder. speaks of the Cheras of further south; but this mention indicates a still later date. (4) In III 2 we have an explanation of the names शतार्चेन:, मध्यमा: &c. as applied to the Rishis of the Rigveda. तस्माधन्छतं वर्षमभ्यर्चन्तस्मान्छत-चिनः। Madhyama is also similarly explained as also Pragatha (प्रायात = प्रगाय). We know that the classificatian of Rigvedic Rishis as शतार्चन; मध्यमा; प्रगाथा:, क्षद्रमक्ता: and महामुक्ताः is given by Aśvalāyana Grihyasūtra. division is older than this Sutra, as the names have already begun to be fancifully explained in this Aranyaka (III). (5) In III 4 we have प्राण उन्धः which is plainly copied from Upanishads. (6) बृहती सहस्र is explained as 36000, Brihati consisting of 36 letters. (7) The classification of sacrifices is already made. # एषं यज्ञः पश्वविधः अमिहोत्रं दशपूर्णमासौ चातुर्मास्यानि पशुः सोमः॥ These are detailed in the Sūtras. The first three appear to be food sacrifices. Where verses are quoted by the phrase तदेते स्रोकाः, they are not Vedic verses but are new ones though older than the Aranyaka.

X UPANISHADS

We now come to the noblest portion of Vedic literature, indeed of the whole range of Sanskrit literature, viz., the Upanishads, sublimest from the philosophical as well as literary points of view. The Acharyas who developed the Brahmana literature probably got tired of Vedic sacrifices which involved tedious ritual as also the cruel slaughter of larger animals like cows, bulls and horses. And they seriously fell to consider whether the highest destiny of man could not be realised without these horrid sacrifices. seeds of such thoughts had already been sown in the days of Rigveda hymns some of which strike us, even now, as embodying the highest philosophical speculations to which man can rise and evidencing the most serious attempts of man to solve the never-to be-solved mystery of man, nature and God. And the wonder is that these abstruse speculations of the older Upanishads are put forth in such convincing form and language, that it may be said, without the fear of contradiction that they are the most precious possession of posterity, surpassing, as they do, even the dialogues of Plato in eloquence and subtility of thought. Their language is both simple and eloquent and their style though still that of the Brāhmaņas is yet without their tedious repetitions or puerile quibbles. Indeed it shows how at that ancient date the Sanskrit language could be used in prose with all the artifices of oratory used by Demosthenes or Macaulay. Some passages of the Chhāndogya and the Brihadāranya are master-pieces of eloquent Sanskrit prose and deserve to be learnt by heart by Sanskrit students. Interesting stories and dialogues, real or conceived, are given in illustration of high principles which are as charming and convincing as the parables in the Bible.

The philosophy of these older Upanishads is also the highest to which philosophers of the world, ancient or modern, have yet reached. These Upanishadic thinkers rose from the worship of nature and of numerous gods presiding over its manifestations, to the idea of one God different from man and nature and then to God no other than man and nature. They rose from personal God to Impersonal God, who is both the maker and the made, the mason and the material, an idea to which man is slowly coming round in these days of phenomenal advance in physical sciences. These thinkers gave the name of Brahman to this highest entity because it overspreads the whole creation, pervading and also controlling it. They also called it Atman or Soul Supreme, because it is conscious and the human soul is itself the Soul Supreme, as also the fine essense which constitutes this world (4 पर्)s

णिमेहतदात्म्यामेद सर्व तस्वमासे-छां.). Along with this idea, they also rose beyond the idea of heaven, first conceived by them along with all peoples as containing all the blessings of this world made everlasting, to a still higher conception of final beatitude in which the individual soul merges into the Universal and enjoys Ananda or joy, different from the joys of this mundane world (which are merely an iota of it (आनंदस्य मात्रामुपजीवान्त &c). The older Upanishads, therefore, form, as said before, unquestionably the noblest portion of Sanskrit literature, both as literary and as philosophical productions and have been praised as such by all Sanskrit scholars, eastern as well as western. No praise can be higher than that bestowed on them by the German philosopher Schopenhauer who said "Oh Upanishads, you will be the solace of my life and the solace of my death."

We are not concerned here with the elucidation of this philosophy of the Upanishads, the theory of Brahman, that subtle principle by which the Vedic Rishis and Achāryas sought to explain the phenomenon of this Universe, conceived as one and not manifold, as conscious and not unconscious. This philosophy has been studied by thinkers of India from the most ancient times down to the modern, from Bādarāyaṇa of 1st century B. C., the author of the Brahmasūtras, down to Śankara, Rāmanuja, Madhva and Vallabha of the 15th century A. D. as also by western

scholars of modern days. But these Upanishads have historically been studied only in modern times, in the West by scholars like Deussen and others and quite recently in India by Belvalkar and Ranade. And they have propounded their views on the history of this philosophy and of this literature in their valuable works - views from which we widely differ, especially in respect of chronology, inasmuch as these scholars assign a much later date to the Rigveda itself than we assign. In the following pages, we will put forth our views, noticing where necessary the conflicting views of scholars, western and eastern.

The total number of Upanishads, according to the orthodox view, is 108, as mentioned in an Upanishad itself, viz. the Muktikopanishad. And these are assigned to different Vedas, as Upanishads are usually conceived to form part of some Vedic Āranyaka. This enumeration of Upanishads made by the Muktikopanishad (which we give in a note) may be taken to be later than Sankara and earlier than Akbar for whom a special Upanishad called Allopanishad was composed, The Muktikopanishad, however, says:- "The Māndūkya Upanishad is the highest among the 108 and would alone suffice for salvation. If not. ten Upanishads would suffice". This pre-eminence of the Mandukya may be ascribed to the fact that Gaudapāda, the teacher of Śankara, has commented upon it in his Kārikās. It may, however, be

taken that from ancient times ten Upanishads have been looked upon as old and leading, as these ten only have been commented upon by Śańkara and others. These ten are usually given in the following order, 1 Īśa, 2 Kena, 3 Katha, 4 Praśna, 5 Mundaka, 6 Mandūkya, 7 Taittirīya, 8 Aitareya, 9 Chhandogya and 10 Brihadaranyaka (माण्ड्रवयमेकमे-बालं मुमुक्षुणां त्रिमुक्तये । तथाप्यसिद्धं चेद्ज्ञानं दशोपानिषदे पठ ॥२६॥ ईशकेनक-ठप्रश्रमुण्डमाण्डूक्यतित्तिरि । ऐतरेयं च छान्दोग्यं बृहदारण्यकं तथा । ३०). The Muktikopanishad goes on to say "If ten do not suffice, study thirty-two, if not even these, then study 108"; and then it enumerates these 108. Most of the latter are, however, not real Upanishads, devoted to the teaching of the philosophy of Brahman, but are sectarian and even Tantric. like the Dattatreyopanishad or the Rudrakshopanishad. On reading these latter, one is forced to say that their authors have abused the high name of Upanishad and have wrongly used the sacred authority of that Vedic word to preach their worthless doctrines. Winternitz calls them non-Vedic properly; we would even call them Puranic or Tantric. Three of these, however, are really old ones, viz. Kaushītakī, Švetāśvatara and Maitrāyanīya. Belvalkar and Rānade have, in their history of Indian Philosophy Vol II, treated these thirteen Upanishads only as the older ones and have discussed how, from the philosophy of Brahman developed in these thirteen, they can be chronologically arranged. Deussen also, as

thirteen only as the older Upanishads. In this view we entirely agree and we shall, in the following pages, speak only of these Upanishads. One or two others may be noted in passing, such as the Nārāyaṇa and Kaivalya; but as these thirteen only fall within the Sruti period, according to our view and even according to that of Belvalkar and Rānade, though their limits of this period are different, it is but proper that we should speak, in this section, of these thirteen Upanishads only.

These unique Upanishads in which "for the first time in the history of human thought we find the Absolute grasped and proclaimed" (Macd. p. 220) and "which may very well bear comparison with Plato's dialogues' (Winternitz p. 247) are, as said before, ten according to orthodox opinion and thirteen according to most European and Indian scholars. Winternitz adds a fourteenth. viz. the Nārāyana which is, however, later and not so grand either. The ten have been enumerated in the verse quoted above of the Muktiko-The three other Upanishads which panishad. modern scholars place along with these are Svetaśvatara, Kaushītākī and Maitrāyanīya. The first two are referred to, along with the ten by Sankara in his Bhāshya on the Vedānta Sūtra; but he has not commented upon them. The Vedanta sutras themselves, according to the Bhashyakāras, refer to eight distinctly. "The texts referred to by the several groups of commentators down to 1300 A.D. are the Chhāndogya and other 8, with Śvataśvatara, Kaushītakī, Maitrī and Māṇḍūkya as a second set and the recently discovered Bāshkala, Chhāgaleya, Ārsheya and Śaunaka, as perhaps forming a third set" (Belvalkar p 80.) We shall not speak about these last in this chapter, but shall confine our remarks to the thirteen generally accepted to be the older Upanishads, already enumerated.

These thirteen Upanishads form part of the Āranyakas or Samhitās of the different Vedas and they are actually found in them. Thus Isa is the last chapter of the White Yajurveda Samhitā; Kena is a part of the Talavakāra Brāhmana of the Sāmaveda; Katha belongs to the Kāthaka Śākhā of the Black Yajurveda and is part of its Samhitā. Prasna, Munda and Māndūkya are ascribed to the Atharvaveda which has, however, no Aranyaka; and as these Upanishads do not form part of its Samhitā and of Gopatha, they may be supposed to belong to some lost Brāhmana of that Veda. The Taittirīva Upanishad belongs to the Tittiri Śākhā of the Black Yajurveda and is actually found in its Aranyaka. The Aitareya belongs to the Rigveda and is contained in the Aitareya Aranyaka. The Chhāndogya belongs to the Sāmaveda and is said to be given in the Chhandogya Brahmana not

now extant. Lastly, the Brihadāranyaka Upanishad belongs to the White Yajurveda and is contained in its Satapatha Brāhmana. That Veda having no separate Āranyaka, this Upanishad itself is called an Āranyaka. Of the remaining three, Svetāśvatara and Maitrī belong to the Black Yajurveda and are given in these Sākhā Brāhmanas, while the Kaushītakī belongs to the Rigveda and is contained in the Sānkhāyana Āranyaka.

How to arrange these Upanishads chronologically is a difficult problem indeed. European and Indian scholars have carefully studied them historically and even by parts with this object and have formulated their views as to the priority or posteriority of these parts relatively. Deussen has arranged them into four groups as follows:-I Ancient prose Upanishads :- 1 Brihadāranyaka, 2 Chhāndogya, 3 Taittirīya, 4 Aitareya, 5 Kaushītakī, 6 Kena or Talavakāra. II Early Metrical Upanishads:- 7 Kāthaka or Katha, 8 Īśa or Īśāvāsya, 9 Śvetaśvatara, 10 Mahānārāyaņa. III Later prose Upanishads. 11 Praśna, 12 Maitrāyanīya, 13 Mandūkya. IV Atharvana Upanishads and minor Upanishads like Samnyāsa, Yoga, Saiva, Vaishnava, Sakalya and others. This classification as quoted by Belvalkar and Ranade (p 89, Vol II) seems to be somewhat inaccurate, as it omits to mention Mundaka and in--correctly (in its place probably) mentions Maha-

nārāyaņa which is obviously a later Upanishad. Winternitz takes the six Upanishads, Aitareya, Brihadāraņyaka, Chhāndogya, Taittirīva, Kaushītakī and Kena as "representing the earliest stage of development' in Upanishadic thought (p 236). In the next stage he puts the four metrical Upanishads, viz. Katha, Svetāśvatara, Mahānārāyana and Isa and the two, half in prose and half in verse, Praśna and Mundaka, "in which we find interwoven Sānkhya and Yoga doctrines". And in the third and last stage he puts Māndūkya and. Maitrāyanīva. This classification is also not correct. The prose Mandakya can not be put in the last stage, included as it is by orthodox opinion in the oldest ten. Nor can Mahānārāyaṇa be placed in the second set as we shall show in detail later on. Winternitz, however, finally observes that "we must leave it to future scholars to decide to what degree the various philosophical doctrines mingled and how far such mingling was consequent upon retouched versions of the texts" (p 238). It must be admitted that the question of the priority or posteriority of these Upanishads has become a complicated one, owing to the certainty that these texts have more than. once been retouched.

Macdonell also divides the Upanishads chronologically into four groups. The oldest group consists of Brihadāranyaka, Chhāndogya, Taittirīya, Aitareya, Kaushītakī "in prose still of the

Brāhmaņa style". Kena comes next as a link partly in prose and partly in verse, while decidedly later are Kāthaka, Īśa, Śvetāśvatara, Mundaka and Mahānārāyana. "These are more attractive from the literary point of view." This grouping is generally correct; but the last view is certainly not; for the case is exactly the reverse. these five Upanishads, viz. Katha, Īśa, Śvetāśvatara, Mundaka and Mahānārāyana cannot stand comparison, in literary excellence even, with the Brihadāranyaka and the Chhāndogya, as Macdonell himself admits further on where he says that "their language often rises to the level of eloquence" and that 'there is a peculiar charm in their liveliness, enthusiasm and freedom from pedantry" (p 226). This mistaken view apart, one may agree with Macdonell in looking upon Brihadaranyaka, Chhāndogya, Taittirīya, and Aitareya (Isa, however, being taken to be also one of them) as the oldest Upanishads, Kena and others as following them, Śvetāśvatara, Kaushītakī and Maitrāyaņīya as coming last.

In grouping the Upanishads or their parts Belvalkar and Ranade first give the criteria for deciding the priority or posteriority of Upanishads or their parts (Vol. II p. 88) as follows:—
1. The name, the newer ones being named after the initial word; 2. The style, language and form; 3. The similes, symbols and illustrations used, the older texts being tinged with

ritualism and giving fancy etymologies; Priority of sacrificial gods like Indra; 5. Prose according to Deussen; 6. According to Oldenberg the influence of Brāhmanic ideas of sacrifice, magic, or vratas and a phalasruti with the words एवं वेद; 7. Specific mention of rivers, mountains, countries, peoples etc.; 8. Interquotation or analogies of words; and 9. Ideological development. But these in our view are mere indications which individually will be of no avail. For a subsequent author may write in prose - prose imitating the Brāhmaņa style and giving fancy etymologies and even phalasrutis. He again may simply take up an old idea and dilate upon that only. Interquotations again may be from a common source, as several teachers developed this philosoply such as Śāṇḍilya &c. who have left no works of their own. It must be noted here that no Upanishad quotes from another by name. And there is not one teacher and one sacred work as in Christianity or Mahomedanism. It is moreover, a question whether prose comes first or verse. It is, therefore, difficult to rely upon any of these indications for determining priority and a general view must be taken upon all these indications, other arguments being also given their due weight. We will take the instance of Isavasya which by its metrical form is looked upon as belonging to the second set. Now this Upanishad forms a part of the

White Yajurveda Samhitā which itself is wholly in verse, which indeed was formulated by Yājñavalkya with the avowed object of separating the metrical Mantras from the prose Brāhmaņas. This Upanishad which forms the last chapter of this Samhita is no doubt called Khila and cannot, therefore, be looked upon as forming part of the original Samhita formulated by Yājñavalkya. But it must be treated as contemporary with the Brihadāranyaka, which also is the last chapter of the Satapatha Brāhmana and is also its Khila. Nay, it may be treated as even earlier, as it still sticks to sacrifice (क्ववेनेवह कमीण जिजीविषेत् शत ए समाः) and does not preach abandonment of the world preached by the Brihadaranyaka (पुत्रेषणायाश्च लोकेषणायाश्च व्युत्थायाथ मिक्षाचर्य चरन्ति). These arguments themselves, it may be admitted, are not conclusive as a subsequent author may revert to verse and to the older doctrine of 'Karman without the desire of obtaining heaven.' It, however, seems probable that Isavasya is one of the oldest Upanishads as it forms part of the White Samhitā. Belvalkar and Ranade also look upon it as one of the oldest Upanishads "as its metrical form was inevitable being a part of the White Samhitā and as its theme is a compromise between the old path of sacrifice and the new path of renunciation and as it heads the Muktikā canon (p. 91, Vol II). The Maitrayānīya may similarly be placed in the third group and not

in the second, as it actually quotes from other Upanishads by using the words एवं बाह. It does not mention any Upanishad by name by stating who says it; but other and many indications show its lateness as we will point out when describing each Upanishad separately.

The task of arranging the Upanishads in chronological groups is thus very difficult. It is, however, attempted by Belvalkar and Ranade who, as recommended by Winternitz, have studied them philosophically and by parts and have compared them carefully with one another. It is well marked by most scholars that the several parts of these Upanishads mostly belong to different authors and were composed at different times; and these two scholars have carefully gone through these several parts and the development of their thought. And the result of this study has been exhibited in a table given at page 135, Vol. II. which shows four chronological groups with minor columns distinguishing the early from the late ones. This table, however, we are forced to say, is bewildering and does not give a clear idea on the subject.

In our view, two definite grounds may fairly enable us to group the Upanishads, as they are today, chronologically. The first is the mention of Vishnu or Siva as the highest god, nay, as Brahman itself. We know that the oldest Upanishadic philosophers rose above the idea of indi-

vidual gods and left behind the Vedic deities, Indra, Vishnu, Siva and Aditya. They taught the impersonal Brahman, pervading, constituting and moving or restraining the whole universe. Later thinkers, however, reverted to one highest god, some first to Vishnu and others to Siva. We have already noticed in this behalf the very first sentence in the Aitareya Brāhmana अमिवें देवानामवमो विष्णु: परमः. But Vishnu was not still taken up by the old Upanishadic thinkers as Brahman itself. The two Upanishads which are thus entirely free from sectarian bias and are solely devoted to the exposition of Atman or Brahman are Chhāndogya and Brihadāranyaka; next to them come Isa, Taittiriya, Aitareya and then Praśna, Mundaka and Mandūkya. comes Katha which mentions तिहिष्णोः प्रमंपदम्। for the first time. The Black Yajurveda followers were. however, not satisfied with Vishnu, as their favourite deity was Rudra and the Rudradhyaya was the most popular section of their Samhitas. They raised Maheśvara, therefore, to the highest position in the Svetāśvatara. Subsequently came the idea of three highest gods, the triad of the Purānas, Brahmā, Vishņu, and Maheśa and the Maitrāyanīya Upanishad, the latest of the thirteen, takes up this idea.

The other indication is the mention of the Sānkhya doctrine of Purusha and Prakriti, and more still, of the three gunas, Sattva, Rajas and

Tamas. We do not take, along with this, the Yoga philosophy; for this philosophy as such is very modern. But the chief plank of it, concentration of the mind, is very ancient, indeed is to be found in the oldest Upanishads (आत्मा वा अरे श्रोतव्यो मन्तन्या निदिध्यासितन्यः). If we apply this test, we come to the same arrangment, viz. Chhāndogya, Brihadāraņyaka, Īśa, Taittirīya, Aitareya, Praśna, Mundaka and Mandukya. Katha first mentions gunas and thus follows, along with Kena. The Maitrāyanīya is the latest as it mentions the Prakriti doctrine and the guna doctrine in detail. Svetāsvatara comes a little before it: for it mentions Pradhāna (क्षर प्रधान), Jñeya and Jña (ज्ञेय, ह्म) of the Bhagavadgītā as also Kapila (ऋषि प्रसूतं कपिलं प्राणम्) and Sānkhya (तत्कारणं सांख्ययोगाधिगम्यम्) themselves. And it may also be noted that this Upanishad in the end recommends gurubhakti (यस्य देवे परा मिक्तः यथा देवे तथा गुरों) and we are sure that it is one of the three latest Upanishads, Kaushītakī also cannot be placed in the early set of ten as it copies verbatim many sections from the older Upanishads with additions such as भूत-मात्रा of the Sānkhya. We shall describe this Upanishad in fuller detail in our note, along with others.

Having thus far given our idea of the relative priority of the thirteen Upanishads, we proceed to discuss their age; and on this point we differ most emphatically from the views of European

scholars and of Belvalkar and Ranade, who, perhaps without questioning, follow them. All are agreed that these older Upanishads are pre-Buddhistic as they show no trace of Buddhistic doctrines and hence their lowest limit is 600 B.C. As they must be placed after the compilation of the Rigveda, the earliest date of which according to European scholars is 1200 B.C., Belvalkar and Ranade accept it and take the Upanishadic period to lie between 1200 and 600 B. C." (Vol I, p. 13). It is strange that these scholars, with all their careful scrutiny of the Upanishads, fail to notice the astronomical statement in the Maitrāyaņīya Upanishad, pointed out by B.G. Tilak, which indubitably establishes for it a date as early as 1900 B. C. This Upanishad, as we shall point out in our note, consists of three parts, first old. second later and third latest; and this statement occurs in the second part, making it certain that the first part is as old as 2000 B. C. statement mentions that Uttarāyana takes place in the middle of Śravishṭhā, which, compared with the modern position of Uttarāyana in Pūrvāshādhā, can be made the basis of calculation, as shown in our note. If then the latest Upanishad, viz. Maitrāyaniya, is as old as 2000 B.C., the Upanishadic age must be placed between 2500 and 2000 B.C., a conclusion fortified by the date which we have assigned to the compilation of the Rigveda, viz. 3100. B.C. There are indications in the

Chhāndogya and Brihadāranyaka Upanishads themselves which take these oldest Upanishads to about 2500 B. C. The first mentions Krishna Devakīputra as a pupil of Ghora who taught him a special Upanishadic tenet. Clearer than this is the proof afforded by the Brihadāranyaka which in a disputation of philosophers with Yājñavalkya refers to Pārīkshitas, viz. Janamejava and his three brothers. "Where have the Pārīkshitas gone?" asks a philosopher and Yājñavalkya replies "To the place where Aśvamedha sacrificers go" and then goes on to describe that place. This question is very interesting and even European scholars admit that it 'suggests the inference that the sons of Parikshit had recently come to a bad end.' We shall have to discuss the bearing of this question in another volume when dealing with the Mahābhārata. But we may state that the Satapatha itself gives the story of the four sons of Parikshit having celebrated four Asvamedhas in expiation of sin. This question, therefore, shows that the story of their performing four Asvamedhas was fresh in people's memory and if the date of the Mahabharata fight be taken to be about 3100 B.C., the Brhadaranyaka section mentioning Pārikshitas may fairly be placed about 2500 B.C. Vyāsa who compiled the Rigveda includes in the 10th Mandala, the latest portion of the Rigveda, a sukta of an uncle of Bhīshma; and the Satapatha, which in Kānda I

its older part, makes the astronomical statement about the rising of the Krittikās, fixing its date at about 3000 B.C., refers to the compiled Rīgveda. We are thus also sure that Bhīshma and the Pāṇḍavas lived about 3100 B.C. and that Janamejaya and his brothers must have flourished about 3000 B.C. It is, we think, impossible to controvert the position which we have taken with regard to the age of the older Upanishads from astronomical statements; and it is to be regretted that the Indian scholars, Belvalkar and Ranade, have taken no note of Tilak's views, much less tried to refute them. According to our view and Tilak's, the older Upanishads were compiled between 2500 and 2000 B.C.

That the philosoply of these Upanishads is the highest and that the treatment of it in these "philosophic poems" is most charming is conceded by all European scholars. Schopenhauer looked upon it as "the fruit of human knowledge and wisdom and as containing almost superhuman conceptions whose originators could hardly be conceived as mere men". Deussen thought that the Upanishads gave "if not the most scientific yet the most intimate and immediate light upon the last sceret of existence." It is no wonder therefore, that we, Indians, have from most ancient times looked upon the Upanishads as revelation, as forming part of the revealed Vedas. The reverence with which they are treated during

these four thousand years is thus justifiable. Even the doubting Winternitz is forced to concede on this opinion of Deussen "that these philosophical conceptions are unequalled anywhere in the world. Though the Upanishads do not contain superhuman conceptions, they wrestle so earnestly with truth; and the eternally unsatisfied human yearning for knowledge has been expressed in them so fervently" (p.266).

There were, however, stronger doubters even in India and even in those early days; doubters who denied the entire truth of the philosophy of the Upanishads and their character as revelation. For it may be noted that in opposition to the Upanishads arose the Sānkhya philosophy, first preached by Kapila, with its doctrine of Prakriti (unconscious but active principle) and Purusha (conscious but inert principle) and the three gunas or properties of the former, Sattva (spiritual), Rajas (worldly) and Tamas (debasing). The theory of the gunas became very popular and was adopted by all philosophers including Upanishadic; and some later and most latest Upanishads even based their teaching upon it. Thereare also references in the Svetasvatara to atheists who denied Brahman altogether. (काल: स्वभावो नियतिर्य-दच्छा and स्वभावमेके कवयो वदन्ति कालं तथान्ये परिमुह्यमानाः ।)

It would be interesting finally to take a survey of the social and political condition of the country in the Upanishadic age, i.e.

between 2500 and 2000 B. C.

The Aryan land stretched from Gāndhāra on the west of the Indus to Videha beyond the Sadānīrā, from Peshawar to Patna in modern language. It contained many kingdoms or peoples such as Madra and Kekaya, Kuru and Pānchāla. and Videha, Kauśāmbī and Gāndhāra was probably the last Aryan land and beyond were tribes given to abduction and dacoity even as they are now; and one is moved with wonder when one reads even in the Chhandogya the illustration, given to show how one reaches the highest Brahman from conception to conception, of a man blind-folded and abducted and then liberated in a deserted place who making enquiries and going from village to village finally reaches Gändhära at last. These troublesome mountain tribes apart, the Aryan kingdoms in India were well-governed. We are proud of the boast of Aśvapati of Kekaya that there was no thief in his kingdom (न मे स्तेनो जनपदे - छां॰) and no adulterer. Thieves and adulterers were most carefully watched by Aryan kings whose sole duty in those days was really that much and these crimes were most ruthlessly punished, the hands of thieves, caught red-handed, being cut off or they being put to death (अथ इन्यते - छां॰ ६, १६). It also appears that in case of doubt, Divya or ordeal was resorted to; but ordinarily eye-witnesses were relied upon and he who saw was more believed

than he who deposed that he heard (अइमहाझं तस्में अइ-भाति). The kings took taxes and carried on the administration which then related chiefly to the tracing out of thieves and the dispensation of justice. The country people were prosperous and the kings moved through their dominions with pomp, being received everywhere with delight by the villagers the leaders of whom (ब्रामणी) called Sūtas went forward to receive their kings and set up huts of straw and kept food and water ready as described by Bāṇa so graphically in Harshacharita. The simile taken in the Bṛihādaraṇyaka by Yājñavalkya from this reception in connection with the coming of Prāṇa into the body is equally graphic, if not more.

The kings were mostly Kshatriyas; they were well-versed in the Vedas and the Upanishadic philosophy. And they took very great interest in philosophical discussions. In the long-stretching Aryan land, Brahmins versed in the philosophy of Brahman moved about, from Kuru-Pañchala to Kāśī-Videha and from the latter to Aśvapati of Madra, teaching their doctrines and holding discussions in the presence of kings and under their patronage. These travelling teachers and professors made the new phlosophy popular and enabled its doctrines to be definitely determined. Their names are preserved to us in the several Upanishadic episodes, though the names given in the Vamsas are perhaps imaginary.

Yājňavalkya Vājasaneya and Uddālaka Āruņi, Ayāsya Āṅgirasa and Satyakāma Jābāla are most probably real persons, though Nārada and Sanatkumāra, Bhṛigu and Varuṇa, Nachiketas and Mṛityu are imaginary beings.

As in the days of the Rigveda and the Brahmanas, the Aryan people were divided into four castes only and not more. The Brahmins taught the Vedas and performed the duties of priests at sacrifices. The Kshatriyas ruled, but studied the Vedas and performed higher sacrifices. They occupied socially a higher position than the Brahmins (तसमद्राद्धाणः क्षत्रियमयसगद्भाद्भास्ते). But the Brahmins were higher religiously, as they were teachers. It is interesting to read in the Chhāndogya that Śvetaketu Āruņeya went to Asvapati to learn a philosophical doctrine and that Gārgya Bālāki went to Ajātaśatru of Kaśi and they at first declined to teach, observing that it was against rules that a Brahmin should learn from a Kshatriya. The teachers, however, demanded teaching fees but the only present that a student was expected to make when learning was that of a few samidhs (sacrificial fire-sticks). It is not mentioned if Vaisyas learnt these doctrines. But they must have done so unquestionably, as even Sudras are shown as learning The story of Jānaśruti, a Sūdra king, who, being first refused, was eventually accepted as a pupil by a great Vedanta teacher, given in Chhāndogya (IV 1), shows that even Śūdras were taught these doctrines. The Brahmasūtras of Bādarāyaṇa, two thousand years thereafter, fruitlessly attempt to explain away this story by splitting up the word Śūdra and making it mean something else!!!

The Brahmins and the Kshatriyas were, however, the foremost castes both in society and in the development of philosophy. It is thought by some scholars that the Vedanta philosophy originated with Kshatriyas alone. It is true that some doctrines originated with them and remained with them for some time (यथेषा विद्या नास्मात्कुलाद्भताः छां.). But there are other and greater doctrines which were taught by Brahmins, notably by Yājñavalkya and Uddālska Āruņi, his teacher; and Janaka learnt them from the former. Ajātaśatru of Kāśi taught a lesson to a Brahmin student, explaining how Atman comes into the body of man, by showing how a man goes into sound sleep and how he awakens from it, -a phenomenon not yet well explained by modern science. It must, therefore, be said that Brahmin and Kshatriya thinkers equally took part in the evolution of the Brahman theory and equally share the credit for it.

Along with the four Varnas (Sūta and Kshattri being indicative still of professions and not mixed castes), the theory of four Āśramas seems to have been established at the end of this Upa-

nishadic age. The Aśramas were probably three in the beginning, the student's life, the married life and that of the recluse or the man who has retired to a forest to lead an austere life. The Brāhmachārins (students) resided and boarded at the house of their guru and in return rendered many personal services such as tending his cows. In the story of Satyakāma Jābāla he was asked to stay with the cows of the guru and return only when they had increased to a thousand. The importance of the guru was recognised even for Brahmavidyā and the Achārya was the final resort in it (आचार्यस्तु ते गतिं वक्ता, आचार्याद्येव विद्या विदिता साधिष्ठं प्रापयति &c. - डां॰). The subjects taught to students are enumerated in the Chhandogya (VII, 1) as follows: 1 Rigveda 2 Yajurveda 3 Sāmaveda 4 Atharvaveda 5 Itihāsapurāņa 6 Veda of Vedas (grammar?) 7 Pitrya 8 Rāśi (Arithmetic) 9 10 Vākovākya (logie?) 11 Ekāyana 12 Devavidyā 13 Brahmavidyā 14 Bhūtavidyā 15 Kshatravidyā (art of war) 16 Nakshatravidyā (astronomy) 17 Sarpadevajanavidyā (that relating to serpents, Yakshas and Rākshasas). The list is interesting and it has already been many times referred to. Some of these vidyas are unintelligible; but that they are not imaginary cannot, in our view, be doubted. The students learnt the Vedas and having learnt them constantly recited them as a religious act called Vedānuvachana (वेदानुवचन) and he who recited all the Vedas

correctly was called Anūchāna (अनुचान). Students sometimes prided themselves on such proficiency (अनुचानमानी). The Upanishadic philosophy led, in our view, to the addition of a fourth Aśrama, viz. Samnyāsa, a word not found in the Rigveda nor also in the Brāhmaņas. The idea of giving up the world and living by begging is first given expression to in the Brihadarnyaka (मिक्षाचर्य चरन्ति). These begging philosophers were, however, few and were probably Brahmins only. It is creditable to those times that women were allowed to take up the philosopher's life and there were many noted Brahmavādinīs like Sulabhā and Gargi, the latter of whom assailed Yajñyavalkya with a question in the famous Brihadaranyaka disputation before King Janaka. The cult of Samnyasa was, however, restricted to the really retired men and women. It came into abuse later when it was taken up by Buddhism and made cheap. The Buddhistic monks and nuns were a cheap and broad-cast edition of the Vedantic Samnyāsins. Men and women of all sorts and ages became Buddhist Bhikshus and Bhikshunis. These abused the institution so grossly and incurred so much contempt that eventually Hindu society, on the fall of Buddhism, suppressed Samnyasa altogether as forbidden in the Kali age.

The Vedānta philosophy was, however, taught to the pupils in Brahmacharya as also to men in the Gṛihasthāśrama, though its actual practice

lay with Samnyasins. Svetaketu was taught it when he had just finished his student life and Yājnavalkya was famous as a philosopher when he led still a married life. Indeed, the nearest approach to Brahmānanda mentioned in the Upanishads was the bliss that the married man enjoyed (यथा प्रियया स्त्रिया संपरिष्वक्तो न बाह्यं किंचन वेद-वृ०). But apparently the married man had eventually to retire to a forest, as Yajñavalkya did, for attaining the final bliss. It could, however, be attained, immediately a man had true knowledge; for ignorance caused bondage and naturally true knowledge, when attained, led immediately to Moksha or deliverance and the man became Brahman itself. The first fruit he acquired was fearlessness (अभगं वे जनक प्राप्तोऽसि, ब्रह्माभगं भवति-बृ०).

Along with the four Varnas and the three Āśramas, supreme importance was attached to great social purity. The Chhāndogya enumerates the five great sins or Mahāpātakas and Surāpāna is among them and was so for all men. It is only in America that this abstinence has now become an accepted principle, while it had been accepted by the Indo-Aryan society four thousand years ago. India has maintained this principle for Brahmins, to this day. Even some Kshatriyas like the Sisodias observe the vow rigorously even now.

The evil of marrying more wives than one continued from the Rigvedic days and even

Yājñavalkya had two wives; but they were respected and Yājñavalkya even taught Brahmavidyā to his wife Maitreyī who spurned wealth in favour of it. The Indo-Aryans generally burnt their dead bodies; but sometimes the bodies were left uncared for in jungles and no funeral ceremonies were performed for them, especially of those that had entered into forests and pursued Brahmavidyā. These also went to Brahmaloka from whence there is no return, by the Devayana path (तस्माद्याय्यस्मिच्छव्यं कुर्वन्ति यदि च नार्चिष-मेवाभिसंभवन्ति &c - डां॰) The mentiou of an Atiki wife (आदिक्या सह जायया) in the Chhandogya is to be noted. The word is explained as a wife married when she was very young. Early marriages seem thus to have been then derided.

Among the vices of the Indo-Aryans, that of gambling seems to have still continued from Rigvedic times. Thus Chhāndogya gives an illustration from gambling: "As to the winning Krita the other lower figures bow". Krita meant four and the dice had their faces marked with one, two, three and four dots, and when the dice thrown showed four dots, the thrower won. This method of gambling is still current in India. In contrast with this vice, the Indo-Aryans were remarkable for their truthfulness. The story of Satyakāma Jābāla in the same Chhāndogya proves this great virtue of the Indian people, a virtue which distinguished them still till the most recent times, as

this virtue is noted by the historians of Alexander of 330, B. C. by Arab travellers of about 900 A. D. and by Marco Polo of about 1400 A. D.

The advance in civilisation is testified to by the progress in scientific knowledge. Many metals were now known and used. The sentence यथा लवणेन सुवर्ण संदध्यात् &c. has already bee noticed. The physical phenomenon was marked that eastern winds brought rain-clouds (प्रशेवातो हिंकारः &c.) This also shows that the Aryan land then was the same as mentioned above consisting of the modern Panjab, U. P. and Behar where eastern winds from the Bay current usher in the rainy season. These rains brought fertility and gladness (अनं बहु मविष्यति). The different kinds of grain grown are enumerated in one place as बीहि (rice), यव (yava), तिल (sesamum). माष (Māsha), गोधूम (wheat), त्रियह्य (jungle rice) &c. Rice maintains its first place and this shows that the Indo-Aryans still inhabited the lands at the base of the Himalayas.

With regard to religion, it nay be said that the cult of sacrifice was still supreme and every householder kept Agnihotra (नानाहितामि:-छा॰). But this as well as recitation of the sacred Vedas now became directed to the attainment of Brahman and not of heaven. Vedic recitation, sacrifices, gifts, austerities and fasts were now prescribed for the knowledge of Brahman (वेदानुवचनेन नामाण विविद्यन्ति यमेन दानेन तपसानासकेन-इ॰). But if practised for attaining heaven, the fruit was not everlasting but tem-

porary. This new theory was set up to dethrone the cult of sacrifice or to place it on a lower plane. Vidyā was thus of two kinds, higher and lower, परा and अपरा; the first was Brahmavidyā, while the latter, viz. learning Rigveda &c. and performing sacrifices, led to heaven or Svarga from which after enjoying the fruit of one's merit, one returned to this mundane world. It gradually became established that for the former Vidyā only Samnyāsins were eligible (शिरोत्रतं येस्तु चीर्णम्-नैतद्चीर्णवतोऽधीते – मुण्डक). Tapas and Brahmacharya were also necessry. The idea of तपस or mortification of the body of various kinds gained great strength at this time and for this reason. Fast or अनशन was supposed to be most efficacious. This idea was taken up later by Jainism which prescribes a forty days' fast as of the highest merit. The idea of refraining from flesh also arose (संवत्सरं मञ्जो नाश्रीयात् - छा॰) at this time.

The ancient Aryan states or rather peoples were prosperous and well-governed. Pessimism did not exist among the people as is supposed by some to explain the rise of Vedānta philosophy. There was no misery inflicted by man on man which could lead to dissatisfaction with this world. The Vairāgya of even Buddha was due not to such misery but to misery inflicted by God on man as seen in this mortal world, viz. the misery of birth, death, old age, sickness and mental pain (जनमहर्यकारमाविद्व: सरोमाहक्ष्में

-मग०). But the Vedantic philosophers did not harp upon even this as the Buddhists did. For they were full of the joys of this world and rose from this joy to the idea of Brahmānanda, joy objectless and everlasting. To realise this state, they spurned the joys of this world as Nachiketas or Christ did to obtain the joy of true knowledge. And such philosophers like Sayugvā Raikva often lived the life of a Diogenes, sitting aimless under a chariot (यत्र वे बाह्मणस्यान्वेषणा – छा० 3.1.)

Lastly, it may be noted that these philosophers enunciated and developed the doctrine of the transmigration of the soul and also the theory of Karman under which every person goes to good or bad births according to his Karman (पुण्येन पुण्यो भवति पापः पापेन). This doctrine is explained at length in the oldest Upanishads, viz. the Chhāndogya and the Brihadaranyaka and is noticed in brief or at length in almost every other Upanishad. To escape from the chain of rebirth is, therefore, the final goal of the human soul. The theory of the two paths also was propounded, viz. of the Devayana and the Pitriyana, by the first of which the soul goes to the Brahmaloka from which there is no return and by the second of which the soul, having gone as far as the moon, returns to this world. It is remarkable that at the final stage of the Devayana, the man of lightning is believed to lead the soul to its final delivery (वैद्युत: पुरुष: स पुतान्त्रका गमयति-अं॰)

Note:- Further Particulars about the Upanishads

We give in this note detailed information about each of the thirteen old Upanishads and about some of the later ones, in the probable order of their chronological position.

I. Chhandogya

This Upanishad is, according to our view, the oldest of all (perhaps with the exception of the Isa), as it belongs to the Sāmaveda and as the singers of that Veda seem to have been the first to turn to philosophical speculation. It is well known that singing leads to ecstacy and it is conceivable that the singers of Sāmans first fell to philosophic contemplation. We have already shown (Section I, p. 114) that Om, the symbolical note of these singers, for this very reason, became identified with Brahman, the highest impersonal entity propounded by Upanishadic philosophy.

The Chhāndogya contains eight chapters called Prapāthakas or lessons, divided into 154 Khandas (13+24+19+17+24+16+26+15); and these Khandas contain from one to more than ten prose sentences or Mantras. These Khandas may have been composed at different times and by different authors, as they relate to different topics (see for instance शाण्डिस्यविद्या, सर्वे खरिवदं ब्रह्म, &c. III 14). But the whole Upanishad must have been put together before the sacrificial cult descended to a lower position. For the last Khanda declares that a man goes to Brahmaloka, who leads a married life and does all the religious acts required of him, with his senses restrained. Such a man does not return to this mortal world (अभिसमाब्द्य कुट्टूके...शार्मिकान् विदयन्...सर्वेन्द्रियाव्यासमृति संवतिष्ठाच्य

स खल्वेवं वर्तय-यावदायुषं ब्रह्मलोकमभिसम्पद्यते न च पुनरावर्तते). The same doctrine is found only in the Iśavāsya, viz. that a man should do his due religious acts till the end of his life, but in a resigned spirit without greed (क्वेंबे-वेह कर्माणि जिवीविषेच्छत ५ समाः । एवं त्विय नान्यथेतोऽस्ति न कर्म लिप्यते नरे ॥). Secondly, the Chhandogya speaks of three Aśramas only, the student life, the married life and the retired life in a forest (त्रयो धर्मस्कन्धाः &c. II 23). Thirdly अहिंसन् सर्वाणि भूतान्यन्यत्र तीथेंभ्यः does not prohibit animal sacrifices. Lastly, the Acharya-Parampara given at the end is characteristically short, viz. Prajāpati, Manu and his praias or descendants. One thus feels almost sure that this Upanishad is the oldest of all. Even the Brihadāranyaka teaches the life of the Samnyāsin beggar (सिक्षाचर्य चरन्ति), hereafter adopted as the fourth Aśrama necessary for Moksha or absolution.

The Chhandogya Upanishad naturally opens in I with the glorification of Saman and of Udgitha, with the Sāman chant at sacrifices; and stories are related of Baka Dālbhya, Ushasti Chākrāyana and others who were Sāman singers and Sāman philosophers. Saman is identified with the whole world, the earth being Himkara and so on to the Saman of five parts as well as that of seven parts; and in the end are given some actual notes of singing. In III, the sun is first identified with Atman, the sun with its rays in the four directions; then Gayatri, the chief prayer of the Vedic Aryans to the sun. The human soul resides in the heart, the warmth of the living body and the sound heard in the closed ear indicating the burning within. The soul is next identified in the क्रांडिल्यविद्या with the whole world. Prana is also identified similarly with the world and also mind and speech, sight, hearing and breathing. Lastly, the whole world outside is Atman, the sun born out of the bursting of the

egg of the universe; the atmosphere with the clouds and the ocean. Hereafter in IV we have very interesting parables related, viz, that of the S'ūdra king Jāna-Śruti Pautrāyana, of Satyakāma Jābāla and of his pupil Upakosala Kāmalāyana, ending with a description of how the soul reaches the Brahmaloka by the Devayana (divine path) through light, day, fortnight, month, year, the sun, the moon and finally Vidyut. Chapter V opens with the parable of a dispute among the senses as to which is the highest among them (a parable copied in more than one Upanishad) and then gives a dialogue between S'vataketu Āruneya and the Pānchāla king Pravāhana Jaivali, illustrating how the human soul migrates and describing the Pitriyana (the path of Pitriloka) in complete detail. Next comes the charming dialogue between the five seekers after truth, Prāchīnaśāla and others, including the great Uddālaka Aruni on one side and the Kshatriya philosopher king Aśvapati Kekaya. In VI we have the still more charming dialogue between S'vetaketu and his father Uddālaka Aruni in which the docrine of तत्त्वमसि (That thou art) is explained with various illustrations. In VII is given the eloquent discourse on Atman, preached by Sanatkumāra to Nārada, elucidating the docrine of Prāna and the really highest state of happiness wherein man is conscious of no want or desire. The eighth chapter comes last, forming the pinnacle so to speak of this glorious Upanishad, and gives the parable of Prajāpati and his two pupils, Indra, chief of the gods, and Vairochana, chief of Asuras with their material views, differentiating the West from the East from the most ancient times, as the word अवादि used in VIII 8 clearly proves.

Having so far described in short the contents of this most important Upanishad and having indicated the

probable basis of the arrangement of its eight chapters, we proceed to notice the many interesting historical facts which can be elicited from it. 1. I 38 proves that the Rigveda and the Sam weda were not only already compiled but fully studied. The tune, the rishi and the deity of each Saman was fixed (तलाम त-मृषि तां देवतामुप्यावन्). 2. The singing was to the accompaniment of a Vina or guitar (बीणायां गायन्त्यनं ते धनसनय: Î 7, 6). 3. मटचीहतेषु कुरुपु is explained as faminestricken Kuru country (I 11). 4. The singing cries 31, हाऊ, होई came to indicate different deities (I 12. 7, 13). 5. पुरोवातो हिंकारः मेघः प्रस्तावः (II 8) shows that the Aryan land then extended over the Panjab and U.P. the eastern wind bringing rain therein; and east-flowing rivers are mentioned, not rivers flowing north or south. 5. The parts of the Saman song are seven now, with आदि and उपद्रव added (II 8). 6. Different Lokas are conceived in which Aditya or Sun is the 21st (एकविशो ना इतोऽसावादित्यः) and in the 22nd beyond Aditva von have heaven or Nāka which is described as विशोक 'without sorrow' (II 10). 7. संवत्सरं मङ्जो नाश्रीयात् shows that the cult of abstinence from flesh had begun (II 19) so also ब्राह्मणान् न निन्देत् is interesting (II 20). 8. The study of grammar had progressed and the letters of the alphabet grouped as Svaras, Ushmans and Sparsas and the method of pronouncing them prescribed (सर्वे स्वरा घोषवन्तो बळवन्तो वत्तव्याः &c. II 22). 8. Atharvaveda was probably not put together at the date of this chapter. for अथर्नागिरसः do not lead to अथर्ननेद as in the case of ऋग्वेद. यजुर्वेद and सामवेद, but to इतिहासपुराग which is treated as its Pushpa. Guhya Adesas or Upanishads are treated as separate from Brahmanas and were not yet included in them, they leading to Brahman as flower. 10. It is difficult to understand how the sun could rise in the west and set in the east (III 8). It is, how-

ever, refreshing to find astronomy and geography so far advanced. 11. How is Gāyatrī चतुष्पदा and षड्विधा? and how does the quotation तावानस्य महिमा apply to it referring as it does to Purusha and not to Gayatri? 12. There is a reference to Muhidasa Aitareya living upto the age of 116 (III 16) and one to S'rīkrishņa, son of Devaki, as being taught a doctrine by Ghora Angirasa (III 17). The story of Janasruti is interesting in many ways; firstly, a Sudra is here mentioned as learning Vedanta doctrine. Secondly Kshatta is mentioned as a chariot-driver. The S'ūdra offers his daughter to a Brahmin. Nishka means a fixed quantity of gold and not a coin (अयं निष्तः). And villages are given as Inams to Brahmins. 14. Upanayana was no more than going to school and being admitted as a pupil उपत्वा अयानि (IV 4). But the importance of a guru seems to have been established, आचार्यादेव विद्या विदिता साधिष्ठं प्रा-पयति (IV 9). 14. The students lived at the house of the teacher whose wife took a maternal interest in their welfare. 15. Advanced knowledge of metals is evidenced by सुवर्णेन रजतं &c. (IV 17). 15. The fourth priest still knows only the three Vedas and not the fourth (त्रय्या विद्यया वीर्येण यज्ञस्य विरिष्ट संद्रधाति यत्रैवंविद् ब्रह्मा सबति ibid.). 16. Horses were tied to four pegs driven into the ground and it was the test of a powerful horse that when it sprang, it pulled out the pegs (V 1). 17. The words of Pravahana (यथेयं न प्राक् त्वत्त: पुरा विद्या ब्राह्मणान गच्छति) do not mean that the whole Vedanta philosophy was developed by the Kshatriyas (V 3). 18. The theory of transmigration by the two paths with the law of Karman is detailed here. इष्टापूर्त दत्तं is no doubt lower in status; but not अभिहोत्र or daily sacrifice. A third path is, however, mentioned for thosa creatures that live an ephemeral life. 19. The five great sins (महापातक) are here first detailed, viz. theit.

of gold, liquor-drinking, adultery with the guru's wife, killing a Brahmin, and association with such sinners as the fifth (V 10). 20. Names are double, viz. that of the individual with that of the father, even as at present, such as उदालक आरुणि, बुडिल आश्वतराश्वि &c.; but there is also a third distinguishing appellation based on gotra-descent equivalent to our modern surname: thus उदालक is गौतम and बुडिल is वैय्याघपदा. The gotra system was firmly established at least among Brahmins at this ancient date (V 15). 21. The sixth chapter first mentions the usual period of Brahmacharya orschoollife, viz. from the 12th to the 24th year and famous schools sent out महाजार or learned men. 22. We have a distinct mention of कारणायस or steel as distinguished from छोड़ or iron and of such sharp instuments as न्य-निकत्तन (nail-cutter). 23. Elements first appear to be three only: earth, water and fire. Five elements came later, especially Akāśa, as conceived by Vedānta philosophy, later still. 24. We have already noticed the mention of Gandhara and of fire-ordeal at the end of this chapter. 25. The various subjects of study at school enumerated in VII have already been noticed. 26. The chapter also enumerates the various methods of worship in vogue viz. यज्ञ, इष्ट, सन्नायण, अनाशकायन and अरण्यायन which are all equated with Brahmacharva or worship of Brahman.

2 Brihadaranyaka

The next great Upanishad is the Brihadarnyaka which is in some parts even more eloquent than the Chhāndogya. It may, however, be placed after it in date. The several parts of it, like those of the Chhāndogya, are by different authors and composed at different times which can not be definitely determined. But the

putting together of the whole may be taken to be late. The name at least is very late, for, as explained already, the very name Āraṇyaka is post-Pāṇinian. The several parts which are styled Brāhmaṇas were treated as forming a Khila or supplement of the S'atapatha Brāhmaṇa and not as Āraṇyaka. But the first Adhyāya is not a Khila as it forms part of the eleventh Kāṇḍa of the S'atapatha, the others forming the fourteenth.

These several Brāhmaṇas are put together into six chapters called Adhyāyas and not Prapāṭhakas. They are 57 in number as follows: 6+6+9+16+15+5. The S'āntimantra of this Upanishad is पूर्णसद पूर्णसदः &c. and is found at the beginning of the fifth chapter. Another important thing is that there are three different Vamsas given at the end of the second, fourth and sixth chapters and they are a study by themselves as will be noticed separately. They perhaps indicate that the Upanishad originally was in three parts of two chapters each, which were subsequently joined. The Brāhmaṇas consist mostly of prose sentences or Mantras of various length which run up to as many as twenty-three and more. There are S'lokas quoted in the midst of Brāhmanas as a sort of authority.

As this Upanishad belongs to the Yajurveda or the Veda of sacrifice, and as Asvamedha is the highest Vedic sacrifice, it naturally opens with an idealization of that sacrifice into the phenomenon of sunrise, which itself is looked upon as an Asvamedha. Then we have the creation of the world philosophically described as also of the five senses in man, the working of which has always arrested the attention of Indian philosophers. The second chapter opens with a dialogue between Dripta Bālāki Gārgya, a Brahmin, and Ajāta-satru of Kāsī, a Kshatriya, ending with the explanation of the phenomena of sleeping and awakening. The

chapter then gives the well-known dialogue between Yājňavalkya and his philosophic wife Maitreyī, in which the greatest sage of Vedanta philosophy explains what Atman or Brahman is and the state of Brahmibhava wherein all cognition of duality is lost and the whole world is realised to be nothing else than Brahman. After describing the Madhuvidya of Dadhyan Atharvana. this chapter ends with a Vamsa. Chapter III contains the still more interesting story of the disputations at the court of Janaka wherein Yājnavalkya is assailed with searching questions by many philosophers including the redoubtable lady savant Gargi Vachaknavi. The fourth chapter is the most eloquent disquisition in the whole range of Upanishadic literature, containing an elucidation of the philosophy of Atman alias Brahman by Yājñavalkya to Janaka. Curiously enough, the story of Yājñavalkya and his wife Maitreyī is again given at the end of this chapter and then comes the second Vamsa.

The fifth chapter begins with the S'anti Mantra प्रानिष्ट &c. and then gives a few short but pithy Brāhmaṇas while the sixth quotes two popular parables from the Chhāndogya, one about the dispute among the senses for supremacy (यो इ वे ज्येष्ठ च अष्ट च वेद &c.) and another called पंचामिविचा relating to the migration of the soul by Devayāna and Pitriyāṇa paths, embodied in a dialogue between S'vetaketu Āruṇeya and the King of Kurus, Pravāhaṇa Jaivali. Then come two Brāhmaṇas which are really out of place here as they do not teach any Vedānta doctrine and are entirely sacrificial. Finally comes the third Vañsa which is the longest of the three.

The following interesting statements in this Upanishad may be noted. 1. Yājñavalkya is not the author of this Upanishad though he is the chief authority quoted in it (इति इ स्माह पास्त्रस्यः). 2. Man and woman

originally were one and were then divided into twohalves (स इममेवात्मानं द्वेधा पातयत् पतिश्च पत्नी चामवता तस्मादिदमधबृग-रुमिव &c. I 4, 3). 3. Caste distinctions were recognized even among gods, इन्द्र, वरुण, सोम, रुद्र, पर्जन्य, यम, मृत्यु and ईशान being Kshatriyas. But the Kshatriya is treated as the highest, as a Brahmin serves the Kshatriya in Rajasuya from a lower position. The higher spiritual position of the Brahmins is, however, equally clear, as killing a Brahmin is a great sin (ब्राह्मण: क्षत्रियमधस्तादुपास्ते राजमूये, सेषा क्षत्र-स्य योनिर्यद् ब्रह्म य उ एनं हिनस्ति स पापीय:न् भवति स्वां स योनि हिंसति I, 4). The Vaisyas are those gods who form groups like वसवः, रुद्राः, आदित्याः, विश्वे देवाः and मस्तः and whose names are in the plural while the only S'ūdra god is Pūshan because he supports all (ibid). The Aryans in the eastern countries left agriculture to the S'ūdras who were already tillers of the soil. But it speaks highly of the sublime sentiment of these philosophers when they place Dharma above all castes (क्षत्रस्य क्षत्रं यद्भः) and Satya as the highest Dharma. Agni is a Brahmin and through him, men go to the highest Brahman. Whence are the स्रोकाः (not Riks) यसप्ताचानि मेचया &c. that they should be explained in this Brāhmaṇa (I 5)? 5. तस्मादेता दर्शत्र (अमावास्यां) प्राणभृतः प्राणं न विच्छिन्द्यादिपं वा क्रमलासस्य is the precursor of the Ahimsā doctrine subsequently preached by Buddhism, Jainism and even Christianity in 'Thou shalt not kill' (I 5). 6. The works born from Brahman's breath are Rigveda, Yajurveda, Sāmaveda, Atharvāngirasa, Itihāsa, Purāna, Vidyā. Upanishads, S'lokas, Sütras, Anuvyākyānas and Vyākhyānas (II, 4). The occurrence of the word Upanishad. here is very significant. It may be equated with num आदेशा: of the Chhandogya. They were not parts of any Veda or Brāhmana yet; they were separate, small, esoteric treatises taught to advanced students. Many of these old Upanishads have been incorporated into the exist-

ing thirteen Upanishads but many may have been lost. Then there were many S'lokas besides the sacred Riks which were composed for embodying Vedanta doctrines in short form to help the memory, (यत्सप्तानानि &c. annotated in this very Upanishad, as mentioned above, probably being one of such S'lokas). And Sūtras in prose for the same object were also enunciated by this time; but these as preceding this Upanishad must be taken to have all been lost. Or the word refers to such short sentences as सर्व खल्विदं नम (as explained by S'ankara in his commentary on मझसूत्रपदेशेव of गीता) followed by their Vyākhyānas and Anuvyākhānas, works which no longer now exist, nor even these their names. list when compared with that in the Chhandogya (VII 2) indicates that the Brihadaranyaka is a later Upanishad than the latter. 7. The reference to Parikshitas in III 8 is very important. The memory of the four sons of Parikshit seems to have been fresh. Janamejaya and his brothers were the emperors of the Indo-Aryan world and performed four Asvamedhas. From this question here asked, क पारिक्षिता असवन्, it is inferred by some scholars that the fall of the Parikshitas was in some strange manner. But no such inference can be supported from the answer of Yajñavalkya who says "They have gone to the place where Asvamedhasacrificers go, viz. there where Vayu is and so on". The answer gives the then prevailing idea as to where the Brahmaloka is, beyond this visible world. 8. महेत्र चरकाः प्रयोगजाम shows that the question was asked in the Madra country in the Panjab by a Gandharva or a spirit which had seized the daughter of Panchala Kapya. Inquisitive spirits which seized human beings were believed in those days even as in the days of the Bible. 9. In III 5 we have इहोळ described as काषीतकेय (son of काषीतिक and mot कीबीतक). 10. The Upanishads discuss Brahman

only as is clear from the sentence तं त्वीपनिषदं पुरुषं पृच्छा मि (III 9). The S'lokas at the end of this Brahmana are not from any Samhita but from such floating works onthese subjects as are noted already. They are often enigmatic ones, such as Vedantic philosophers delighted: in composing, e.g. विज्ञानमानन्दं ब्रह्म रातिर्दातुः प्रायणम्. 11. In the fourth chapter we first find Janaka addressed as Samrat, the title of Eastern monarchs, according to the Aitareya Brāhmana. Then we have the same list of works of study with उपनिषद्, तूत्र, व्याख्यान and अनुव्याख्यान again. नानत्तशिष्य इरेत may be marked as showing that Dakshinā was taken only for adequate service. Upanishads are again mentioned as Vedantic teaching and not secret (एताभिरुपनिषद्भिः समाहितास्मा IV 2). S'lokas are quoted here which are not Vedic, but Upanishadic (IV 8). The simile taken from the royal march has already been noticed (राजानमायान्तं सूतप्रामण्यः &c.). IV 4 again quotes the ancient S'lokas तदेते के हाका:, two of which अन्ध तमः प्रविशांति &c. and अनन्दा नाम ते लोका: are clearly from the Isavasyopanishad, or both borrow from the same source; but the quotation at the end एष नित्यो महिमा &c. is introduced by the words तदेतहचा भ्यूक्तम्. 12. Chapter V begins with an. enigmatic Mantra composed by Kauravyāyanīputra ओं से नहा से पराण वायुरं खम. 13. We have the three peoples देवाः मनुष्याः and असुराः who are preached the same letter द by the creator. The Devas understood it as दस or restraint, men as दान or gift and Asuras as दया. Are these three characteristics true of any historical peoples? In a previous Barhmana we are told that Devas and Asuras were both descendants of Prajapati, the Devas belonging to the younger branch and the Asuras to theelder. Can this be explained as showing that Indo-Aryans were the last offshocts of the Aryan race who came to India from Persia? 14. V 5 states that a dying man sees the sun shorn of its rays. Is this so ?

So also he does not hear the noise in the ear usually heard when closed (V 9.). 15. The three holes of रथचक, स्टम्बर and दंदिंस are wider in gradation so is the path of the human soul when it goes to Vayu, to Aditya, and to Chandramas. 16. The moon is placed higher than the sun by ancient Indian astronomical theory. 17. In V 14 the sacred Gayatri mantra is esoterically explained, the fourth unseen foot of it being the sun 18. V 15 gives verses from the Isavasyopanishad word for word. 19. Lastly in VI 3. we have a more reliable आचार्यपरम्परा, viz. उद्दालक आकृणि, his pupil वाजसनेय याज्ञवल्क्य, his pupil मधुक पैक्षय, his pupil चूल मागवित्ति, his pupil जानिक आयर्थण, his pupil सत्यकाम जाबाल. And 20. in VI 5 we have a detailed special sacrificial rite given, for begetting a learned son versed in all Vedas, which strikes us as somewhat obscene but was not so in reality then, as sexualintercourse was then looked upon as a sacred and solemn act.

3. Īs'āvāsya.

The Īśāvāsya or shortly Īśa Upanishad is really the last or fortieth chapter of the White Yajurveda Samhitā and as such must be very old though it is treated as a khila of that Samhitā. In a condensed form it gives the important doctrines of the Vedānta philosophy. But it does not preach Samnyāsa and teaches that karman should be performed till the end of one's life, for "thus only can salvation come". There is one interesting reference in it to Avidyā, not nescience nor the Avidyā of S'ankara; Vidyā is Upanishadic knowledge and Avidyā is plainly other knowledge. The word is, however, differently construed by different philosophers.

4. Katha.

We next take up the Katha which belongs to the Katha S'ākhā of the Black Yajurveda while Isa and Brihad, belong to the White. The Katha is also the next important Upanishad after the preceding three. The S'anti-mantra of this Upanishad is सह नाववन्न and is given at its head, though not a part of it. It consists of two Adhyāyas each subdivided into three sections called Vallīs, a new and strange name. It is introduced by the story of Nachiketas who was cursed by his father Usanas surnamed Gotama (of the Gotama gotra) to go to the world of Yama and who is taught the Vedanta philosophy by Yama himself, the very first question being "Does man live after death?" The six vallis contain verses oft quoted by later works, chiefly the Gita, and these probably are taken from the various Samhitas, The original story of Nachiketas in the Katha Samhitā is shorter and was concerned only with the sacrificial cult of the Nāchiketa fires. The language strikes us as later than that of the original story in the Samhita.

The following interesting statements may be noticed.

1. Nachiketas not being tempted by riches or women or empire is like Jesus not being seduced by Satan in the Bible. This idea may, however, arise in different countries and peoples.

2. अयं लोको नास्ति पर इति मानी shows that atheists who did not believe in any hereafter had already arisen.

3. आश्रयों बक्ता is copied in the Gitā as also अणोरणीयान and अजो नित्यः शाश्रतोऽयं पुराणो न इन्यते इन्यमाने अरोरे &c.

4. नेषा तर्केण मतिरापनेया indicates the rise of Tarka science.

5. नायमात्मा प्रवचनेन लध्यः shows that Pravachana is college teaching (see Taittiriya) and is distinct from अञ्चवचन, the reciting of the Vedas (see also अनुवान).

6. ऋतं प्रविद्यो सुकृतस्य लोके &c. is probably an old Rik.

7. आत्मानं रिश्वनं विद्ये &c. is a striking metaphor

copied in many later works. 8. तद्विष्णोः परमं पदम् (I 3, 9) shows that Vishnu is taken up by this Upanishad as Para Brahman. Though the Black Yajurveda in general praises S'iva as the highest god, the Katha S'ākhā probably glorifies Vishnu. 9. इन्द्रियेम्यः परं मनः &c. is copied by the Gita. 10. बुद्धेरात्मा महान् परः । महतः परमध्यक्तमध्यक्ता-त्पहणः परः । पुरुषान परं किंचित ॥ is copied by the Sankhya and . not from the Sankhya. The words महत्, अव्यक्त and पुरुष are also taken by the Sankhya from here. 11. The Phalaéruti at the end of the first chapter and the line नाचिक-तमपाल्यानं मृत्युत्रोत्तं indicates that the Upanishad consisted originally of one chapter only, the second chapter being a later addition. 12. That chapter is, however, older than the Gita and even the Sankhya philosophy as सर्वभूतान्तरात्मा, न तत्र सूर्यो भाति &c. ऊर्ध्वमूर्यमवाक्शाखम् are ideas copied from here by the Gita. 13. भगादिभस्तपति &c. is a grand idea copied by many later works. इन्द्रियेम्यः परं मनः । मनसः सत्त्वमुत्तमम् ॥ does not mention the सन्देशुण of the Sankhyas; it is the same word as in सत्त्वानुरूपा सर्वस्य श्रद्धा भवति भारत of the Gita. 15. So also तौ योगमिति मन्यन्ते स्थिरामिन्द्रियधारणाम् is different from Patanjala Yoga philosophy and is its precursor; for Yoga is described as प्रभवाप्ययो. 16. शतं चैका हृदयस्य नाड्यः and अंगुष्ठमात्रः पुरुषः embody an older idea taken up here. 17. मुखादिवेषीका धेर्येण is also a grand simile. 18. The chapter ends with a small phalasruti. The योगविधि कुस्न mentioned is that of Vedantic concentration described in the Bhagavadgītā in detail.

5. Taittiriya

We next take up the Taittiriya Upanishad which belongs to the Tittiri branch of the Black Yajurveda. Its relative chronological position can not well be defined and it may have preceded the Katha. Its S'anti-mantra

is सं नो मित्रः सं वरुणः &c. (different from सह नाववत्) and this forms the first Anuvaka in it. For this Upanishad. like the Brahmana and Samhita of the Tittiris is divided into Anuvākas, though the word Valli is borrowed from the Katha S'ākhā. The Upanishad has three Vallis, the first being called S'ikshādhyāya, the second Brahmānanda and the third Bhrigu. These names are given to them from thir opening words. These Vallis are subdivided into thirty-one (12+9+10) Anuvakas. The Anuvakas consist of prose sentences which are always short, as elsewhere in this S'ākhā; and at the end of each chapter or Valli there is an enumeration of sentences by tens as in the Taittiriya Aranyaka of which the Upanishad forms a part. These Vallis may, however, have been composed at different times and finally included in the Aranyaka. For the S'ikshādhyāya mentions the sentences by tens and over in each Anuvāka, which is the older method of the Samhita. This S'ikshā chapter gives many practical instructions which are of very high value such as those to the student who leaves his college : 'सत्यं वद' and so on. At the end of the third Valli, a Saman is given as sung by the man who has reached the Ananda of Brahman. Ina Yajurveda Upanishad this is remarkable.

The following noteworthy facts may be culled from this Upanishad. 1. अवातः संदिताया उपनिषद् has a different meaning for Upanishad. 2. Teachers mentioned by name are Prāchīnayogya, Rāthitara, Pauruśishti and Nāka Maudgalya. 3. The five elements are now well established; but they are produced one from the other and Ākāša is produced from Ātman, a tenet developed later by the Sānkhyas. 4. The five kośas are a new tenet; but Ānanda is a remarkable advance over mere absorption. 5. आदेश आद्या refers to Upanishad as distinct from Rik, Yajus, Sāman and Atharvāngiras. 6. The

gods are classified as आजानज, कर्मज and others who are simply Devas. Indra is above them, above him is Brihaspati, above him Prajāpati, and above him Brahman. 7. The Bhriguvallī develops the same theory of five Košas and praises Anna in various ways. But what is नहाण: परिमर: which kills the enemies, the haters and the cousins (भातृन्य) ?

6. Aitareya.

The Aitareya follows next. It belongs to the Rigveda. and is the only old Upanishad of that Veda. Its S'anti Mantra is वाङ् मे मनासि प्रतिष्ठिता &c., a Rigveda Mantra. It is a very short Upanishad consisting, as it does, of three short chapters (अध्याय), the first only being subdivided into four Khandas. These three chapters form the fourth, fifth and sixth chapters of the second Arana of Aitareya Aranyaka. The first chapter seems to be the earliest of the three speaking of अञ्चलाया and पिपासा. It first gives the explanation of the word Indra on the esoteric basis इदंद्रं सन्तमिन्द्रमित्याचक्षते परोक्षेण and lays down the oft repeated dictum परोक्षप्रिया इव हि देवा:. The second chapter speaks still of svarga as the highest goal: स्वर्ग छोके सर्वान् कामानाप्तामृत: सममवन्. The third chapter does the same. Here we have the functions of mind minutely distinguished and also the five elements mentioned clearly.

7. Pras'na.

We now come to the three Atharvaveda Upanishads: Prasna, Mundaka and Mandukya, their S'anti-mantrabeing सदं कर्णेसि: शृष्याम देवा:. These are probably the latest of the old Upanishads as they contain all the latest developments of the Vedanta philosophy. The

Praéna is a dialogue between Pippalāda, the Rishi of the Atharvaveda and five seekers after Brahman; and in its five sections answers are given to the five questions asked by each of these sages. It is chiefly in prose but verses are usually quoted and are preceded by तदेते श्लोका:, which are not Vedic but Upanishadic. The first Praéna details देवयान and पितृयाण and therein assigns a lower position to Karman. It also divides Brahman into Para and Apara. It also mentions the five elements. The word vrātya is used in its Atharvaveda sense, viz., the highest deity. The following two similes are striking, viz. यथा मधुकरराजानं मिह्नका: &c. and यथा सम्राह्मिकतानियुक्ते एतान्यामानाधितिष्ट &c. The latter relates to the eastern countries, विदेह and others, and probably this Upanishad belongs to that part.

8. Mundaka.

This Upanishad contains, as said above, all the latest developments of the Vedanta philosophy. The line of teachers given in the beginning is बद्धा, अथर्वन्, अंगिरस्, मरद्वाज, सल्पवाह, अंगिरस् and शौनक who is no doubt a late Acharya. The work is wholly metrical. It is a short one and has three chapters called Mundakas, each divided into two Khandas, and each Khanda contains from nine to thirteen verses or mantras. Vidvās are of two kinds like Brahman, viz. Parā and Aparā. While Parā is the highest by which the Akshara is known, Aparā is Rigveda, Yajurveda, Sāmaveda, Atharvaveda and the six Vedangas, Sikshā, Kalpa, Vyākaraņa, Nirukta, Chhandas and Jyotisha. Itihasa and Purana are here omitted as also the other Vidvas of the Chhandogya and Brihadaranyaka. The names and number of the Vedangas are the modern ones. The ordinary sacrifices of Agnihotra, Darsapurnamasa &c. are

also given; but these sacrifices are frail boats (प्रता बेते भददा यज्ञरूपा: । अष्टादशोक्तमवरं येषु कर्म ।) Their fruit is not lasting. Their performers return to life and death. But the Saffinyasin who gives up the world and lives by begging goes to the eternal Atman through the gate of the Sun. For this a Guru is necessary (ग्रमेवाभिगच्छे-त्मिमपाणि: श्रोत्रियं ब्रह्मनिष्ठ). The Brahman theory is well presented and the simile taken from archery is grand, wherein however the bow is Pranava or Om which has now become the highest goal as well as means (प्रणवी धतः शरो ह्यात्मा ब्रह्म तक्षक्यमुच्यते। अप्रमत्तेन वेद्धव्यं शरवत्तन्मयो भवेत्॥). The bow is previously called औपनिषद. Some verses are taken from the Rigveda. The word Vedanta is here found for the first time probably and Yatis alone realise Brahman. तदेतद्चाम्युक्तं introduces कियावन्तः श्रोत्रियाः &c. which cannot be a Rigvedic verse, especially as it inculcates शिरोवत already noticed.

9. Māndūkya.

The third Atharvaveda Upanishad is the shortest of all Upanishads, consisting as it does of twelve prose sentences only. It describes how Om is the whole world, past, present and future. It is Atman in its four stages: the waking, the dreaming, the soundly sleeping and the one beyond these three. Om has also four parts अ. उ. म and the fourth अमात्र beyond. The philosophy of this Upanishad based on 'Om' has been elucidated by the Kārikās of Gaudapāda and later Vedanta philosophers. The words प्राच्च and अद्वेत and the ideas conveyed by them are first found in this work. Its meaningful concisenese is an indication of its lateness.

10. Kena

We lastly come to Kena which is the second Upanishad of the Samaveda, called so from its first word Kena and also called Talavakāra as it belongs to that S'ākhā. This last but not least of the ten old Upanishads is also a short one, having four Khandas only, two in verse and two in prose, containing 34 Mantras (13 veres and 21 prose sentences). It opens with the unanswerable question, who sets the mind in motion or gives the first impulse to breath (the pendulum of the clock of life), and then describes the Brahman in pithy verses. In the prose part is given the parable of Indra, Vayu and Agni trying to find out Brahman. Agni could not burn a straw nor could Vavu move it when asked to do so by Brahman. When Indra approached, Brahman disappeared and hence he is considered to be the greatest of the gods. Indra thus is still the highest deity; but he is not Brahman itself as Vishnu is in Katha. It may, therefore, be earlier than Katha; but the mention of Uma, daughter of the Himalayas (उमा हैमनती) makes it nearly certain that it is a later one. How this Puranic deity comes in here and explains Brahman is a riddle.

11 S'vetas'vatara

Of the three next Upanishads, the S'vetāśvatara is probably the earliest, Kaushītaki and Maitrāyanīya being the next in order. All other Upanishads hereafter are sectarian and not devoted to the pure elucidation of the theory of Brahman. The S'vetāśvatara is attached to the Black Yajurveda and belongs to the S'ākhā of that name. Its S'ānti-mantra is, therefore, naturally सह नावन्त &c. It is divided into six chapters

which are not, however, further subdivided. They contain metrical Mantras only, in all 113 (16+17+21+22+14+28). Many of them are old, being borrowed from the various Samhitas as also other Upanishads. The Upanishad is very thoughtful and eloquent and has not the verbosity of the Black Yajurveda Brāhmaṇa.

The first chapter treats of जीव, बहा, स, and अस. Brahman pervades the world like सर्पि: in श्रीर. The second chapter treats of Yoga, giving the whole method of concentration (तिरुवतं स्थाप्य समं शरीरं &c.) and enumerates the Yogic experiences (नीहारधुमाकीनलानी &c.). This progress of Yoga establishes its lateness and yet the philosophy is not that of Patanjali but its first stage giving the principles, not yet fixed in a system. The third chapter quotes from the Rudradhaya (या ते इद शिवा तनः &c.) and from the Purushasūkta and from various other sources. The fourth identifies Brahman with Mahesvara and distinctly mentions Maya (मार्य त प्रकृति विद्यानमायिनं त महेश्वरम्). The fifth chapter mentions Kapila called Rishi (ऋषि प्रसतं किपले) and his Triguna theory. It may, therefore, be a later addition. The sixth mentions the Karman theory and the words Sāmkhya and Yoga in their particular senses (तत्कारणं सांख्ययोगाधिगम्यं). It also details Sankhya tenets in a line (प्रधानक्षेत्रज्ञपतिर्धेषेश:। संसारमोक्षस्थिति-नन्धरेत: ॥६). In the end the teacher S'vetāsvatara is praised and he taught his doctrines to अञ्चाम्मसिंड (samnyāsis or those beyond the three Asramas). It says that the philosophy should not be taught to अशान nor to a bad son or pupil. It first preaches गुरुमिति as necessary for the highest knowledge (यस्य देवे परा मित्तर्यथा देवे तथा गुरो। तस्वेदे कथिता सर्थाः प्रकाशन्ते महात्मनः॥). These facts establish beyond doubt, the lateness of this Upanishad and it has been properly excluded from the list of the ten older Upanishads.

12 Kaushitaki.

This Upanishad belongs to the Rigveda and forms part of the Kaushītaki Brāhmana which, as we have shown already, follows the Aitareya. Its S'anti-mantra is, threfore, वाड्मे मनसि प्रतिष्ठिता &c. It is entirely in prose. It consists of four long chapters called अध्यायs and is not sub-divided into any sections. Each chapter contains long prose sentences or Mantras, in all 51 (7+15+9+20). There is no line of teachers given anywhere; but Kaushītaki is mentioned as a teacher (प्राणी बहोति स्साह कोषीतकः II) and the Upanishad mostly copies from other older Upanishads with amplifications of its own. Thus the first chapter speaks of the two (or three) paths and expands the Devayana with so many details of its own (तं पबच शतान्यप्सरसा प्रतिधावन्ति शतं मालाहस्ताः &c. I 4). In chapter two, we have a mention of Paingya, who is usually opposed to Kaushītaki in this school, though both sanction the Samnyasin's rule of life, viz. begging in the village (पामे भिक्षिला). What is Ekadhana or Daivasmara (II 3 & 4)? We have here a mention of बन्नोपवीतं कृत्वा (II 7) as a preliminary to sacrifice and alsothe Vrata of observing the moon on the day following the Amāvāsyā as very meritorious (II 8). The seeing of the full moon and the performance of certain ceremonies are also prescribed and these latter includesome which are out of place in an Upanishad. These are सर्वेजितः कौषीतकेस्त्रीण्युपासनानि. The mention in II 13 of समी पर्वती दक्षिणश्रीत्रश्च makes it certain that the author knows Vindhya and hence is a late one. The third chapter gives a dialogue between Indra and Pratardana. Daivodasi who has gone to heaven. The Upanishad here copies copiously from Chhandogya and Bribadaranyaka, quoting even the very words, with many additions of its own such as प्रज्ञा and भतमात्राह. The

dialogue between Gargya Bālāki and Kāśya Ajātaśatru in the fourth chapter is similarly borrowed from the Chhāndogya, almost wholly, with extensions of its own such as the সাল সালো at the end which is treated by the several senses like a S'reshṭhin, an interesting simile from life, wherein a rich merchant is followed and feasted by his compeers.

13. Maitrāyaņīya Upanishad

Last comes the Maitrayaniya or Maitri which furnishes us with the astronomical statement fixing the lower limit of the Upanishadic period at about 1900 B.C., as already explained. The Upanishad belongs to the Maitri S'ākhā of the Black Yajurveda. It has been published in the Bibliotheca Indica series with the commentary of Rāmakrishna by Cowell. It is called Maitryupanishad also, as its teaching is that which word is derived by the comof Maitri. mentator from Mitra (मित्रायाः पत्रः मैत्रिः). Indeed the Upanishad itself mentions in the beginning that the Vidya was first taught by Maitri (इयं ब्रह्मविद्या राजनस्माकं भगवता मैत्रिणाख्याता). Maitrāyanīya seems to be a descendant of his and this Upanishad belongs to the Black Yajurveda.

The work is divided into seven Prapāṭhakas or lessons and the last two are known as Khila or appendices. The original portion, however, consists of the first four lessons. It begins with a discourse between king Bṛihardratha and the sage S'ākāyana who teaches the Brahman philosophy as it was taught by Maitri. He then recites a dialogue of old days between the Rishis called Vālakhilyas and the Prajāṛati called Kratu. This dialogue ended originally with the fourth lesson; but in the present recension it is extended upto the 29th

section of the sixth lesson, where S'ākāyana's discourse is shown to have ended with the usual caution "This knowledge should not be imparted to a sceptic" and so on (एतद्रह्मतमं नापत्राय नाशिष्याय कीर्तयेदनन्यमक्ताय सर्वगुणसम्पन्नाय द्यात). But the Upanishad again continues to the 38th section of this sixth chapter and a seventh chapter is added. Thus obviously there are three portions of this Upanishad; the first consists of the old portion upto the fourth lesson, then an addition runs upto the 29th section of the sixth and thirdly there is a further addition to the end of the seventh. The astronomical statement appears in the second portion; and the date furnished by it is about 1900 B. C. as we will again in detail As this Upanishad contains express words such as अथाह or 'so says' (a rishi) or अन्यत्राह or 'says a rishi else-where', quoting sentiments and even exact words* from other Upanishads like the Brihadaranyaka, Chhāndogya, Kena and others, we are sure that these oldest Upanishads must have been composed before 2000 B.C. The oldest portion of this Upanishad itself may be taken to be about 2000 B. C., the middle portion about 1900 B.C., and the latest addition may come to about 600 B.C. or a period preceding Buddha, to whom there is no reference in the Upanishad.

The following statements in the Upanishad are interesting:-

 Ancient kings are mentioned in apparently two sets, viz. the solar and the lunar lines as given in the Purāṇas (सुदुम्नभूरिदुम्नेन्द्रदुम्न-द्वद्यस्थाय्यावनाश्च-वध्यश्वाश्वपति-श्व-

*Such as य एष सम्प्रसादो (छां.), प्रतिपुरुषः क्षेत्रज्ञः य एष घोषं शुणिति (त्.), मनोमयः प्राणशरीरो ६०. (छां.), इंद्रियाणि ह्याः रथः शरीरं (काठ.), अस्तीति ह्यता (कठ), खरवयं सर्व (छां.), अथ खल्ल स उद्गीथ ६०., ऊर्ध्वमूलमवाक्शार्खं ६०. (कठ), प्राणः प्रजानामुद्यत्येष सूर्यः (प्रश्न). It must be seen if there are extracts fom later Upanishads like श्रेताश्वतर.

विन्दु-हरिश्चन्द्राम्बरीष-नन्तुसर्यातिययात्मनरण्येाक्षसेनादयः चक्रवर्तिनः, अध मरुत्तमरतप्रमृतयो राजानः). 2. भुत्रस्य चलनं दृष्टं shows advance of astronomical observation 3. The references to the Sankhya theory af three gunas are numerous: गुणमयेन पटेनात्मानमन्तर्थाय. This occurs in the second chapter and indicates even lateness for some ideas in the first portion. It can not be denied that the Sankhya theory of gunas is later than the chief old Upanishads as has already been shown. 4. नट इव क्षणवेषः and चित्रमित्ति show that acting and painting were known in those early days as also the ideas of the four Aśramas first noted in the Chhāndogya. 5. In the middle portion in 6-19 we have a reference to बडंगयोग, viz. श्राणायाम, प्रत्याहार, ध्यान, धारणा, तर्क and समाधि. This is different from the Yoga science expounded by Patanjali. There is no doubt that the study of the science of Yoga is as old as the ten Upanishads. There is even a reference to the pressing of the tongue against the roof of the mouth. ताल्रसनाम-निर्वाडनात (8-20). 5. यथार्द्रेन्धनामेरम्याहितस्य &c. महतो भृतस्य... ऋग्वेदा यजर्वेद &c. is taken from the Chhandogya (6-32) and mentions अथवीक्रिसः instead of अधवेवेद but this is not strange. इतिहास and पुराण are mentioned here as usual. 6. शनिराहकेत mentioned in 6,7 bring this last portion down to a very late period. 7. The idea of the triad नद्या, विष्णु and इद seems to be already complete as their different functions are noted more than once. (रहस्ता-मसों उत्तः मग्रा राजसः विष्युः सात्विकः V 2).

The following quotation, long though it is, shows that this last addition was made when there was an attack on the Vedic religion, probably Buddhist, though not necessarily, as Buddha is not directly mentioned, and as such attacks preceded even Buddha. ये चान्ये च पुर-याजका अयाज्ययाजका श्रहशिष्या श्रदाश्च शास्त्रविद्वारः अथ ये चान्ये चार- बरनरमस्त्रज्ञजितरङ्गावतारिणा राजकमणि पतितादयः अथ ये चान्ये यक्ष-राक्षसभूतगणिकशाचीरगमहादीनामथं पुरस्कृत्य शमयाम इत्येवं ब्राणा अध

ये चान्ये वृथाकषायाः कुण्डलिनः कापालिनः अथ ये चान्ये ह वृथातर्कदृष्टान्तकुह्केन्द्रजालेवैदिकेषु परिस्थातुमिन्छन्ति तेः सह न संवसेत् प्राकाश्यभृता वे
ते तस्कराः अस्वर्ग्या इत्येवं द्याह, नैरात्म्यवादकुह्केमिंग्यादष्टान्तहेतुमिः ।
आम्यन् लोको न जानाति वेदविद्यातरं तु यत् (7-8). So also बृह्स्पतिः
कृको भूरवाऽसुरेम्यः क्षयायेमामाविद्याममुजत् and तस्माद्राह्मणो नावेदिकमधीयीत. In this connection various S'lokas are quoted which do not belong to any Upanishads. They may be found in the Mahābhārata (e. g. मन एव मनुष्याणां कारणं वंधमोक्षयोः VI 34) though one is not sure. It can not, however, be decided which is the original source. The atmosphere of this Upanishad with its amplification of Sāmkhya ideas and Yoga practises is the same as that of the Bhagavadgītā, which is, however, later and more methodical (e.g. प्रकृति, प्रधान, राजस, तामस, सात्विक, भूत, परमात्मा).

Lastly, the astronomical statement in the middle portion is as follows. Describing Kāla in detail, the Upanishad divides the year into two halves "एतस्यामेय-मुर्धमर्थ वारणं मघाचं श्रविष्ठार्थमामेयं क्रमेणाःक्रमेण सार्पाचं श्रविष्ठार्थान्तं सौम्यं तत्रिकमात्मना नवांशकाः &c. This plainly indicates that at this time the Zodiac had been divided into 27 equal. parts allotted to the 27 Nakshatras. These equal parts, in modern language, would consist of 1310 and the statement shows that the sun moved northwards at the middle point of S'ravishthā and ended his northern course at the beginning of Magha. The Vedanga Jyotisha mentions that the sun moves northwards at the beginning of Dhanishtha and ends his northern course at the middle of Aslesha. At the present day the reader will find from any Hindu calender that the sun turns northwards, in other words, Dec. 21 falls, when the sun is in the middle of Mula. The present position of the winter solstice is thus nearly 4 Nakshatras or nearly 58° behind the Maitryupanishad position. Taking 72 years for each degree of precession, we have 53×72 or

3816 years between now and the Upanishad, which thus goes back to about 1900 B.C.

14. Later Upanishads.

Of these the Narayaniya is the most important. forms the tenth Arana of the Taittiriya Aranyaka and is known to be a Khila or appendix. Its S'anti-mantra is of course सह नाववत &c. It is a very long Upanishad and is not divided into sub-sections though the Mantras are numbered 15 &c. It consists of verses except where sacrificial formulæ come in. These verses are taken mostly from the Samhitas. The familiar Sandhyā (संध्या) mantra स्त्ते(मया &c. is found here. Herein are also found the popular त्रिसुपर्ण and मधुमती mantras. The Puranic deities are referred to and separate mantras for each imitating the Gayatri mantra are given (These deities are रहो रहश्च द्विश्व नन्दिः षण्मख एव च । आदित्योऽभिश्च द्वागिश्च क्रमण द्वादशाम्भसि ॥ गरुडो मह्मा विष्णुश्च नारासिंहस्तथैव च ॥). The gotra of Gāyatrī is given as Sankhayana. तपो नानशनात्परम् and संवस्तराः परिवत्सराश्च ते अहर्गणाः is notable. Those who die in the Uttarayana go to the sun and those dying in the Dakshinayana to the moon (84).

Next may be noted the Kaivalya which is a short Upanishad and is attached to the Black Yajurveda, its S'anti being सह नावन्त. It is in the form of a dialogue between Aśvalāyana and Prajāpati. It is entirely in verse, there being only two Kāṇḍas of 24 (19+5) mantras in it. For Moksha it prescribes the Samnyāsa Āśrama and a Guru is prescribed 'in the S'rutis' (अन्याश्रमस्थ: स्वगुद्ध प्रणम्य). It is naturally devoted to S'iva worship (उमासहायं त्रिलोचनं नीलकण्ड or शिवं ध्यात्वा). सर्वभूतस्थमात्मानं सर्व भूतानि चात्मिनं is taken from the Gītā; as also वेदेश सर्वेरहमेन वेष: वेदान्तहृद्धद-विदेव चाह्म ॥ स्वमायया कल्पितजीवलोकम् and मोक्ता-मोग्य-मोग forming trīputē are clearly modern.

The short Jābāla Upanishad is attached to the White Yajurveda. It is in prose and Yājnavalkya is naturally the teacher. It is also devoted to S'iva worship and teaches the Japa of the S'atarudriya. It prescribes Samnyāsa and living in deserted places (श्रूरशागारदेवशृहतृण-कूटवल्मीक &c.; संत्यासेन देहसागं करोति स प्रमहंसः).

The Prihajjābāla is, however, a long Uranishad attached to the Atharvaveda, the S'ānti-nantia being महं कर्णेमिः &c. It consists of eight parts called Biāhn anas and it is partly in verses and fartly in prose. It is in the form of a conversation between भुमुण्ड and कालामिस्ट and others on the merit of भरमधारणा. The smearing of the body with ashes is a rite peculiar to the S'iva cult. The names of Bhasman are given as विभृतिभीसतं भरम आरं रक्षेति पंच नामानि भरमनः। The Paramahamsas enumerated are संवर्तकारणिश्वतकेतुद्वीसक्षभुनिदाघजङभरतदत्तात्र्यरेवतकभूमण्ड-अभृतयः. Those from Durvāsas onwards are Purāṇic names purely. The work treats only of the putting on of Bhasman and Rudrāksha.

The Jābālī Upanishad is attached to the Sāmaveda aud its S'anti-mantra is आप्यायन्त ममाङ्गानि. It is in the form of a conversation between Jabali and Paippaladi. It styles Jīva as Paśu and Iśa is properly Paśupati. It also treats of Bhasmadhāranā. In the Kalisantarana is found the modern Mantra हरे राम हरे राम &c. is told by Brahman that sixteen names are saviours in the Kali age and their Japa to the number of three crores is prescribed. The Mahāvākvopanishad prescribes the Mantra असावादिलो नहा. There are other Upanishads devoted to the worship of the Puranic gods such as Bahvrichopanishad treating of Deviworship. The names of Devi are त्रिपुरसंदरी, बालाम्बिका, बगला, मात्रक्की, तिरस्कारिणी, राजमात्रक्की, भूवनेश्वरी, वाराही, चामुण्डा, चण्डा &c. The Krishnopanishad mentions Venu as Rudra and S'ankha as Vishnu; while Krishna is Brahman

itself. उन्हल्ल, रशना, अदिति, सुदामा, नारद and वृन्दा are also mentioned. We have a दत्तात्रेयोपनिषत्, a ह्यमीनोपनिषत् and others which need not be noticed here in detail.

The 108 Upanishads enumerated in the Muktikopanishad are as follows:- ऐतरेयकोषीतकिनादबिन्द्वात्मप्रबोधनिर्वाण-मुद्गलाक्षमालिकात्रिपुरासोभाग्यबह्वृचानामृग्वेदगतानां दशसंख्याकानां वास्त्रे मनसीति शान्तिः ॥१ ईशावास्यबृहदारण्यजाबालहंसपरमहंससुबालमांत्रिकानिरा-लम्बित्रिखीबाह्यणमण्डलबाह्मणाद्वयतारकपैङ्गलभिक्षत्रीयातीताध्यात्म्यतारसार-याज्ञवल्क्यशाट्यायनीमुक्तिकानां शुक्रय हुर्वेदगतानामेकोनविंशतिसंख्याकानां पूर्ण-मद इति शान्तिः ॥ २ कउवल्लीतैःतिरीयकबद्धकैवल्यश्वताश्वतरगर्भनारायणामृत्वि-न्द्रमृतनादकालागिरुद्रश्चरिकासर्वसारशुकरहस्यतेजोबिन्दुःयानबिन्दुत्रह्माविद्यायोगत-स्वदक्षिणामृर्तिस्कन्दशारीरकयोगशिक्षेकाक्षराक्ष्यवधृतक्ठरुद्रहृदययोगकुण्डलिनी--पञ्चनहाप्राणाभिहोत्रवराहकलिसन्तरणसरस्वतीरहस्यानां कृष्णयज्ञवेंद्रगतानां द्वा-त्रिंशत्सं रूयाकानां सह नाववित्विति शान्तिः ॥ ३ वेन छांदोग्यारुणि मेे त्रायणि मेत्रेयी-वज्रसूचिकायोगचुडामणिवासुदेवमहत्संन्यासवज्रकुण्डिकासावित्रीरुद्राक्षजाबालद--र्शनजाबालीनां सामवेदगतानां षोडशसंख्याकानां आप्यायन्त्विति शान्तिः ॥ ४ प्रश्नमाण्डूक्यमुण्डकाथर्वशिरोथर्वेशिखाबृहुज्जाबालनृसिंहता।पेनीनारदपरिवाजकसी-ताशरममहानारायणरामरहस्यरामतापनीशाण्डिल्यपरमहंसपरिवाजकाश्चपूर्णासूर्या--त्मपाश्च पतपर ब्रह्मत्रिपुरतापनदेवीभावना ब्रह्मजाबारु गणपति महावावयगोपारुताप-न रूष्णहयत्रीवदत्तात्रयगारुडानामथववेदगतानामकत्रिशासस्याकानां भद्रं कर्णेभि-रिति शान्तिः ॥ ५

APPENDIX

I Keith on the Rising of the Krittikas due east.

In his history of the religion and philosophy of the Vedas, Keith refers to the statement in the S'atapatha regarding the rising of the Krittikas due east and tries to brush it off in a cavalier fashion by observing "It is impossible to attach serious value to this assertion made in a passage which assigns foolish reasons for preferring one or other Nakshatra. We are in the same region of popular belief as when in the Sūtra literature the existence of Dhruva, a fixed Pole-star, is alleged" (p. 22). One may call it foolish for the Vedic sacrificers to say that fire should be consecrated when the moon is in the Krittika Nakshatra, because that Nakshatra rises due east.* But how does this detract from the truth of the observation recorded in this reason? It is illogical to argue that the observation is unreliable because it was foolish to give it as a reason.

There is some logicality in saying that the observation cannot be treated as absolutely correct because the Sūtra literature contains a similarly incorrect observation about the Pole-star treated as Dhruva or immovable. It must, however, be remembered that the star looked upon as Dhruva is fixed for all practical purposes, as it appears in the same place and region every night and does not move, as all other stars do, during the night

* But is it not equally foolish of the Romans that they should fix their Easter aftr a certain full-mon and more foolish still of the Christians that they should even now keep Easter as a movable sacred day depending upon a full-moon instead of fixing it immovably in the Julian Calender.

from east to west. The Dhruva observation, therefore, is correct practically though not absolutely. Similarly the observation of the Krittikas rising east cannot but be taken to be practically correct and even in this view it leads to a date much earlier than the date assigned to the S'atapatha by Keith and other European scholars. But there is a great difference between the Pole-star observation and the Krittika observation. The east point can be very easily fixed with absolute correctness and was, we know, so fixed by the ancient peoples, Egyptians. Chaldeans and Vedic Arvans. The north point, on the other hand, in each lattiude, is difficult to fix in the sky with absolute correctness and hence the two observations cannot be treated on the same level. We have already shown how the Krittikā observation must be treated as absolutely correct, since the east point is easy to fix, and how it leads to a very ancient date for the S'atapatha.

It is not here suggested by Keith, as it has been by some scholars, that the Nakshatras themselves are not Vedic but borrowed from elsewhere. This argument has been advanced further on. At page 25, Keith remarks that the Nakshatras are foreign "because they are not mentioned in the Rigveda except in X 85 and that they are found only in the Taittiriya Samhita and the Atharva Samhita." But, as stated over again, the argument derived from non-mention is valueless. There may have been no occasion to mention the Nakshatras elsewhere in the Rigveda. But this mention in X 85 of the Rigveds is sufficient for our purposes as it shows conclusively that the Nakshatras were known before the Rigveda was compiled and that therefore their mention in the S'atapatha is not suspicious. But, further than this, we have shown that the Nakshatras cannot be foreign. They are found in China and

Arabia no doubt, but at a time when they may be taken to have been borrowed from India. Keith thinks that they must have been borrowed from Babylon; but he admits that there is no proof of their existence there. Moreover, if the Nakshatras came from Chaldaea, why did not the Rāšis also come from there, the Rāšis which are peculiarly Chaldean and which are not found in India till about 200 B.C. after the invasion of Alexander? Lastly, the Nakshatras have been mentioned in the Vedic literature at a time when they could not have come from outside. The rising of the Krittikas due east could not have been marked later than 2800 B.C. and as the precession of the equinoxes was not known in India till 600 A.D., no one could have made such a statement from inference. The statement in the S'atapatha is that of an actual observation and stands as a stumbling-block in the way of those who would assign a very late date to the Rigveda and the S'atapatha. The above noted remark of Keith, therefore, strikes one as as hopeless and strange as the remark of Max Müller noted already in getting over the difficulty presented by the astronomical statement in the Vedanga Jyotisha, which also takes the Rigveda far behind the date Max Müller and Keith are inclined to assign.

II Keith's Dates for the Various Samhitas and Brahmanas

Having thus summarily brushed aside the statement in S'atapatha, first brought to notice by S. B. Dixit, and without having even mentioned the theory of B. G. Tilak based on the reference in the Rigveda to the vernal equinox being in Mrigaśīrsha, propounded in his 'Orion', Keith tries to refute the argument advanced by Jacobi for placing the Rigveda in the third millenium.

B. C., based on the mention of the vernal equinox in-Phalguni (R. X. 35, V, 13 &c.), as "of no value" in proving a date so early for the Rigveda. Keith holds that the Rigveda cannot be earlier than 1200 B. C., as the gāthās of Zoroaster and the hymns of the Rigveda are almost exactly the same and as the date of Zoroaster cannot be taken further back than this. The lowest date for other Vedic works are also assigned by him asfollows, "The Upanishads undoubtedly precede Buddha, i.e. 480 B.C. The Brāhmanas precede the Upanishads and their lowest date is thus 600 B.C." Keith looks upon the Aitareya as the oldest Brāhmana and the S'atapatha as the latest. "The Atharva-veda Samhita and Yajurveda Samhitus precede the Bral manas and their lowest date may be taken as 800 B.C." The latest date for the Rigveda is, therefore, about 1000 B.C. The argument derived from the kingly dynasties given in the Puranas for placing the Rigveda in about 1200 B. C. is also noticed and dismissed as based on unreliable dynasties given in works unquestionably dated. about 500 A.D.

These lowest limits for these works are undeniable, but they lead to nothing as to their actual probable dates; and further it is not possible to accept a century or two as the probable period intervening between the several works and chiefly between the Upanishads and Buddha. And the higher limit assumed, viz. 1200 B.c. for the Rigveda based on Zoroaster's date is open to grave objections. Many gāthās are no doubt exact counterparts of Vedic hymns and they were most probably composed at about the same time when Vedic Aryans and Iranians were together. But they may have preceded Zoroaster by thousands of years, being preserved intact by Parsi priests as Rigveda hymns have been preserved intact by Brahmins these five thousand

years. Their date cannot, therefore, be the date of Zoroaster. Secondly even Zoroaster can not be placed so late as 600 B.C. nor as 1000 B.C. It is really inexplicable how European scholars like Hertel and even Keith (who properly refutes Hertel's arguments by which he places Zoroaster a little before Darius) entirely ignore the statements of ancient Greek authors who are almost contemporaries (426 B.C.) and placed Zoroaster 6000 years before the invasion of Xerxes and Aristotle also placed him about the same period before Plato (Keith, ibid., p. 615). In the face of such ancient evidence it is impossible to place Zoroaster so late as 665 B.C. or even 1000 B.C. as held by Carpenter and R. C. Temple (J. R. A. S. 1926). As pointed out by Keith himself, no conclusion can be drawn from the non-mention in the gathas of nature-gods worshipped by the Persians as described by Herodotus or of animal sacrifices or of the exposing of dead bodies to birds or It is admitted that the Medes who practised these rites were different from the Persians. The dissenting sect of Zoroastrian Persians may have long lingered before it was taken up by Darius and given royal support. Zoroastrians may have given up animal sacrifices long before Darius as the Upanishadic philosophers did so early as 2000 B.C. It can not, therefore, be argued that Zoroaster lived only a little before Darius nor about five or six centuries before him, as by ancient Greek tradition he is placed several thousand years before Darius. The date for the higher limit for the Rigveds, therefore, can not be taken to be only 1200 B.C.

Keith thinks that the separation of Iranians and Vedic Aryans can not be placed before 2000 B.C.; but no definite arguments are given for holding this view. Some of the Rigvedic hymns were composed beyond

the Hindu-Kush when the two peoples were together; but many hymns were clearly composed in the Panjab and as the compilation of the Rigveda must be placed about 3100 B.C., the separation of the two branches must be placed earlier than 3100 B.C. The words Brahmadvish and Devanid in some hymns of the Rigveda may refer to the Zoroastrians or their predecessors who separated from the Vedic Aryans. The changed meaning of Deva among the two peoples and the changed meaning of Asura itself in the Rigveda also shows this. Many later hymns describing the Asuras as the enemies of Devas and as conquered by Devas and by Indra (pointed out by Keith himself) would point to the same conclusion. The Devanids can not, we think, be the Dravidians or the aboriginal Dasas, as in one Rigvedic verse the three peoples have been distinctly and separately mentioned. यो नो दास आर्यो वा पुरुष्टतादेव इन्द्र युध्य चिह्नति mentions the Adevas as distinct from the Dasas and the Aryans (Vedic people). The schism between Vedic Aryans and Iranians or Asuras alias Adevas must be placed before 3100 BC. and it may be that Zoroaster may be the leader of the Iranians in this schism. But his name does not occur in any Rigvedic hymn; and it is likely that he was only a late teacher of that schism, especially as Asuras are spoken of in the Brahmanast as sacrificers. Some even consider

[†] The Chhandogya speaks of the Asuras as decorating the bodies of their dead. The Zoroastrians have not this custom. It may, therefore, be suggested that Zoroaster's schism came later than the Chhandogya or 2500 B. c. The Medes also are said to have exposed the bodies of their dead. But Herodotus, as stated above, does not speak of Persians as expessing the bodies of their dead to birds of prey and hence some Asuras must be taken to have the custom of decorating dead bodies like the Egyptians and the Assyrians and even the western Aryans.

Zoroaster and Vyāsa as contemporaries. We are not, however, concerned here with fixing the date of Zoroaster; our contention is that the gāthās may be more ancient than Zoroaster and that, therefore, the date of the Rigvedic compilation does not depend upon that of Zoroaster and that even the date of Zoroaster itself cannot be so late as 1000 B.C.

III. The Three Vamsas in the Brihadaranyaka.

These vamsas when studied carefully are inexplicable in many points. It is true that the name in the nominative is that of the pupil and that in the ablative is the name of the teacher. But names are sometimes repeated, the teacher's and the pupil's name being the same. Thus पौतिमाप्या गौपवनाद्गीपवनः पौतिमाष्यात् (II 6). is strange. It may be suggested that the second पातिमाप्य is another Acharva of the same name. In kingly dynasties, we have names repeated often and we distinguish them as George I and George II. This second Fautimashya may be Pautimāshya I and his graud-pupil Pautimāshya II with whom the Vamsa starts. 2. शाण्डिल्य: कोशि-काच्च गौतमाच्च gives two names as teachers as च is used (and even twice as required). It must be understood that S'andilva learnt Vedanta doctrines from two teachers. But the Vamsa goes higher with Gautama only. 3. आनिसम्लातः आनिसम्लातात्. This is explicable only on the the supposition that the second is the father and bears the same name as it is a gotra name. 4. सेतवप्राचीनयोग्यो again are two teachers or they are two brothers of the same name. 4. मारदाज and पाराज्ञ ars next repeated. They must be different persons of the same gotra name. 5. Asurāyana and Yāska are two persons as noted above, but केशार्य काण्य is one person as च is not used here. So also are अयास्य आहिरस, आभृति त्वाष्ट etc. The

names now seem to be imaginary ending with परमेष्टी, pupil of Brahman, which is swayambhu or uncreated, the first teacher.

The Vamés at the end of the fourth chapter is the same as above with the exception that in section two new pupils are introduced from Agniveéya, who is shown as a pupil of गार्ग, whose name is repeated. From कोशिकायनि the Vamés is the same again upto the last, viz. Brahman.

The third Vamsa at the end of chapter VI presents an entirely different aspect. Instead of पौतिमाध्य and so on we have till the end of the section 2 पौतिमाषीपत्र etc. Probably these are different persons altogether, पौतिमाषीपत्र being sister's son of पोतिमाध्य. But why should these Vedanta philosophers be styled as their mother's sons? 2 The line of teachers from आस्ति is interesting as he is a pupil of याज्ञवल्क्य, he of उदालक, he of अरुण and so on. But here the line of teachers ends with Aditya, the sun, and not with Brahman (VI 3.) A second line of teachers is therefrom given in the next section commencing with the words समानमासाजीवीपत्रात in which याज्ञवल्क्य is omitted and the line is taken to Brahman as in the other two Vamsas. The rishi तुर: काव्षेय: is here mentioned as taught immedeiately by Prajāpati, taught by Brahman, Prajāpati here is the same as Parameshthin of the others.

Many of these names of teachers appear in the other Upanishads and they mostly seem to be real persons excepting some of the last names. Why these Vamsas should be given in the Brihadāranyaka alone is a riddle; it may be explained as showing the rigid traditions of the school of Yājnavalkya, the propounder of the White Yajurveda.



SECTION III-VEDĀNGAS

History of Sanskrit Literature

ŚRUTI PERIOD

Section III - VEDĀNGAS

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24	10	${ m He}$	it
104	8	\mathbf{wrod}	\mathbf{word}
114	10	bounds	bonds
121	28	स्कृंतसं	संस्कृतं
127	25	Pāninis's	Pāṇini's
141	last line	nothern	northern
149	1	advanced	advanced by
152	10	country	century
166	19	a year	two years
175	18	county	country

HISTORY OF

SANSKRIT LITERATURE

S'RUTI PERIOD

SECTION III — VEDĀNGAS

I INTRODUCTION

As in every other language, literature is originally religious, so also in Sanskrit the Vedas were the earliest literary works embodying the prayers, the sacrificial formulas and the psalms of the Indo-Aryan Vedic people. They naturally soon became sacred utterances, so much so that every word and every ritual action acquired importance as securing merit not from their meaning but from their form. To utter a mantra exactly as the Rishis uttered it or to perform a sacrifice as the Rishis performed it or to sing a psalm in the very notes and modulations of the Rishis became the sine qua non for securing the favour of the gods and any mistake or change in them was productive of evil. The Acharyas of the Brāhmanas, therefore, laid down many rules for

the proper pronunciation of mantras and the proper performance of sacrifices. These rules became vastly more important when the progress of time changed the language of the Indo-Aryans, both in pronunciation and in grammar and sacrificial ritual developed by the addition of longer and higher sacrifices and of more complicated rites. These matters, therefore, had to be reduced to scientific precision in special works devoted to these subjects. It was thus natural that works were written on the proper pronunciation of Vedic mantras, on the proper performance of Vedic sacrifices and on the grammar of the Vedic language which had visibly changed in the course of a thousand years and owing to the extension of Arvan settlements into eastern and southern lands where new non-Aryan tribes were incorporated as Sudras. This explains how Šikshā, Kalpa and Vyākaraņa became the subjects of new works on the topics of pronunciation, ritual and grammar.

The next necessary subject to be studied was vocabulary. Ancient Vedic words were going out of use or changing their meanings. The Vedic mantras were efficacious, no doubt, according to the reverent feelings of the Aryans, by their words and form and not by their meaning. But there were still generations which understood their meanings and they tried to indicate these meanings by the Pada-pāṭha, i. e. separat-

ing each word in the mantra and by fixing the meaning of obsolete words therein. Nighaṇṭu or what may be called in modern language Vedic vocabulary was thus needed. So also was needed a method of interpreting the Vedic sentences by explaining the nature of Vedic gods and the ideas involved in the Vedic hymns. How the names of gods were to be explained and how the names of objects or words arose was also naturally studied. The result was the development of a fourth Vedāṅga or subsidiary subject of study in connection with the Vedas, viz. Nirukta which tried to explain the meaning of Vedic words and mantras.

Along with this came the study of metres naturally enough. The Vedic hymns were in different metres. In the progress of time, Vedic metres which were somewhat rough and untutored changed into more polished and regulated ones. The study of old Vedic metres was, therefore, necessary, as the mantras could not be changed and must be recited as the Rishis had composed them. Different metres again were supposed to be pleasing to different gods as the Achāryas had said that Gāyatrī was pleasing to Agni, Trishtubh to Indra, Jagati to Varuna and the Viśvedevas and so on. The Vedic metres were, therefore, carefully studied; their supposed irregularities were explained and accounted for and modern metres were compared with them.

Thus arose the fifth Vedānga, viz. Chhandas or-prosody.

Lastly came the most important and scientific of all the Vedāngas namely Jyotisha or astronomy. Vedic sacrifices were to be performed not only daily, morning and evening, but the more important ones were to be performed on the full moon and new moon days. Some ritual was prescribed on certain Nakshatras: for with the Vedic Arvans not only the sun and the moon but the constellations also were very important. In their ancient home about the polar regions, the sun was invisible for months together; and time could be watched and measured by the progress of the moon among the constellations which were visible throughout the time (night and day being one long night lasting for two or three months) and the moon must have been, therefore, carefully watched. It is thus why with the Vedic Aryans, the Nakshatras, i.e. the positions of the moon among the constellations, naturally taken to be 27 by the moon's making a round of them in 27 days, were so important. Certain ceremonies were, therefore, fixed for certain Nakshatras such as Punarvasu, Hasta, Chitrā and so on. Again certain sacrifices were to be performed on the Vishuvan day, the day on which the sun is in the middle of its southern and northern travel. Astronomy, therefore, was naturally studied and astronomical phenomena being regular and unchanging, the intelligent Vedic Aryans found out the laws regulating them and evolved rules for calculating the positions of the sun and the moon at any future time, so that full moons and new moons, Tithis and Nakshtras, Vishuvans and seasons which depended upon the sun's course northward and southward, could be predicted. The great advance in astronomical knowledge disclosed by the Vedānga Jyotīsha need not, therefore, be wondered at, as it was the result of a necessary study of the stars and the sun and the moon made for nearly two or even three thousand years. This Vedanga must necessarily have been preceded by a good knowledge of Arithmetic and the rule of three, called together राशिविद्या, mentioned in the Chhandogya Upanishad.

These six Vedāngas or subjects of study ancillary to the Vedas are enumerated already in an Upanishad noted before as शिक्षा, कल्प, व्याकरण, इन्दः, निरुक्त and व्योतिष. The word anga may even be taken to mean limb, as Chhandas is looked upon as the feet of Veda, Kalpa as its hands, Jyotisha as its eyes, Nirukta as its ears, Sikshā as its nose and Vyākaraṇa as its mouth: इन्दः पादो तु वेदस्य इस्तो कल्पोऽथ पञ्चते। ज्योतिषामयनं चक्षुनिरक्तं श्रोत्रमुच्यते। शिक्षा प्राणं तु वेदस्य मुखं व्याकरणं स्मृतम् ॥ (पाणिनीय शिक्षा). These subjects must have been long studied before the works now recognised as Vedāngas were composed. For many teachers are mentioned not only in these

works, but in the several Brāhmanas and Āranyakas. Whether these teachers had composed any works or not, we do not definitely know; but as the Mahābhārata mentions a Sūtrakāra Śākalya whose work on grammar we do not now possess, such works must have existed once though they have now disappeared. We must assign to these works dates ranging between 1900 and 800 B.C., the latter being the date of Pāṇini whose अष्टाध्यायी is the recognised Vedāṅga on grammar, disclosing as it does the highest development of that subject. We have already shown how our date for Panini is vastly different from the date assigned to him by European scholars and how consequently the whole range of Vedic literature is dated by them much later than we date it. The date of Pānini is the sheet anchor, so to speak, in the history of Vedic literature and it will be discussed at length in a special note. If the date of Panini is taken to be 800 B.C. as we do, the other Vedānga literature which unquestionably preceded Pāṇini may be placed between about 1900 B.C., the date of Maitryupanishad, and 800 B.C.

This literature, with the exception perhaps of the Kalpasūtras detailing many Vedic sacrifices in which the modern world including India has lost all interest, is of very great value. Language was so thoroughly studied by these ancient Achāryas that the rules which govern the natural

formation of words and grammatical forms discovered by them still serve as a guide to the study of modern languages. Grammar and etymology especially were scrutinized in a manner in which no nation of the world, ancient or modern, has yet done. The unassailable edifice of grammar which Pānini has built and into and from which not a word or letter can be put or taken out is indeed a worderful work in the literatute of the Even the Kalpasūtras disclose the logical intellect of the Indo-Aryans who have laid down maxims for the interpretation of revealed works, maxims which laid the foundation, later, of the Pūrva Mimāmsā Šāstra, maxims which can guide lawyers even in modern times in the interpretation of codified law.

II S'IKSHĀ

This Vedānga relates to the proper pronunciation of Vedic mantras. The work now recognised as the Vedānga by the reciters of Rigveda, Yajurveda and Sāmaveda is a short book of about 60 verses divided into 11 sections. It is certainly a late work, later than Pāṇini whose teaching, it declares in the very beginning, it follows. It applies to both Sanskrit and Prakrit which also proves that it is later than Pānini. Pānini is said herein to be Dākshīputra. It treats of letters and accents and the method of pronouncing them. The arrangement of letters according to their Sthana is perfect and shows the highest advancement of the science of phonetics. The science is supposed to have been taught by god Siva to Pānini.

There are several references to Sikshā in Vedic works; but a complete work on this subject was not composed by any one and hence this work by an unnamed author became the recognised Vedānga on Sikshā. It may be dated about 300 B. c. and does not really belong to the Vedic period. Other Sikshās are known and there are several Prātiśākhyas but they are all probably later than Pāṇini and need not be treated of here.

III CHHANDAS

The same thing may be said about the work on Chhandas recognised as Vedānga by all the Vaidikas. It is attributed to Pingala who may have lived about 300 B. C. It treats of both Vedic and classical metres. It opens with the abcd of this science, viz. म, य, र, स, त, ज, भ, न, छ, ग, the names of the ganas adopted to secure the utmost brevity in giving the definitions of classical (लोकिक) metres. But these ganas have no application to Vedic metres; and it is somewhat absurd to begin the treatise with this string of letters. Vedic metres, like Sikshā, have been defined in several places in Vedic works and, as stated already, the names of the seven chief metres are found mentioned even in Rigvedic hymns. This is, however, perhaps the first work solely devoted to the subject of Vedic and classical prosody and has consequently been adopted as the Vedanga on the subject. The author probably is a follower of Pingala, called বিগ্তনাৰ in the very first verse, whose intellect was chastened by the favour of Siva like that of Pānini.

IV KALPASŪTRAS

The extant Kalpasütras must have been preceded by others, now not existing. Sūtras are mentioned as early as the Brihadāranyaka Upanishad as subjects of study. And for the performance of elaborate sacrifices manuals, short and decisive, must have been found necessary at a very early age, as the procedure described in the Brāhmaņas is desultory and as discussions are often given therein without decisions. Moreover, different schools soon sprang up, adopting different ritual and the four Vedas also soon led to four main schools. Though in the performance of the principal sacrifices, all the Vedas were required to be used, the Hotri using the Rigveda, the Udgātri the Sāmaveda, the Adhvaryu the Yajurveda and the Brahman or presiding priest all the three and latterly Atharvaveda particularly, still each Veda later on provided for all requirements by including the necessary mantras in its Brāhmaņas and especially its Aranyakas. Hence the Sütras also, like these works, attached themselves to the several Vedas and laid down their distinctive procedure. They were thus considered as an Anga or limb of that Veda along with other The older Sütras mentioned in the Brihadaranyaka disappeared, both because better Sūtras subsequently arose and because ritual

also developed further. The extant Kalpasūtras which are recognised as Angas of the four Vedas are as follows:—1 Āśvalāyana and 2 Sānkhāyana of the Rigveda; 3 Maśaka, 4 Lāṭyāyana and 5 Drāhyāyaṇa of the Sāmaveda, 6 Mānava, 7 Baudhāyana, 8 Bhāradvāja, 9 Āpastamba and 10 Hiraṇyakeśin also called Satyāshāḍha of the Black Yajurveda, 11 Kātyāyana of the White Yajurveda and 12 Kauśika and 13 Vaitāna of the Atharvaveda.

These Śrauta Sūtras relate to the Śrauta sacrifices performed on the higher fires with the help of one or more priests. But there were many sacrifices and ceremonies of a domestic nature which were to be performed by the householder himself without the aid of any priests and on the Grihya fire. For these, manuals subsequently arose called Grihya Sūtras. These Sūtras usually bear the same name as the above but their authors were without doubt not the same. They have the same names because they belong to the same school; or perhaps because their authors were born in the same gotra Thus the author of Aśvalāyana Grihya Sūtra can not be the same as the author of the Aśvalāyana Śrauta Sūtra, though he poses as such in the very first sutra of his Grihya work. Indeed that Grihya Sütra was composed centuries after the latter as will presently appear. The Grihva Sūtras, according to our view, do not fall in the

Sruti period as defined by us. Their language is distinctly later. 'The literary development of the Śrauta Sūtras is earlier than that of the Grihya Sūtras' (Keith p. 26).* 'The language of the former is not yet classical Sanskrit and is distinctly pre-Pāṇinian (ibid). Even according to Keith thus they are to be placed before Pānini. Keith places them about 400 B. C., Pāṇini according to him dating about 300 B.C. But, as will be shown later on, Pāṇini can not be placed later than 800 B. C., and these Kalpasūtras can not be later than 1000 B. C. It is difficult to determine their earlier limit. They are unquestionably later than the Upanishads and hence can not be earlier than 1900 B.c. We may, therefore, take the Śrauta Sūtras as falling between 1900 and 1000 B. C., i. e. in the third part of the Sruti period. There are one or two other indications of this early age of these Sūtras. They nowhere mention idols of Vedic gods or idol worship. Idol worship is mentioned in Pāṇini. Secondly they still stick to animal sacrifices which subse-

^{*} Garbe observes that the style of Apastamba in the Grihya is much more concise than in the Srauta (p. XVII, Vol. III). The same thing may be said of Aśvalāyana. The authors of these two Grihyas, therefore, must be different from Apastamba and Aśvalāyana, the authors of Śrauta Sūtras. It may also be noted that for Sāmaveda the authors of Grihya Sūtras are different from those of the Śrauta, viz. Jaimini, Gobhila and Khadira; and for the White Yajurveda, the author of the Grihya Sūtra is Pāraskara and not Kātyāyana.

quently became unpopular. The first indication, however, is not decisive, as non-mention is no evidence and as mention of idols is not necessary in treatises which treat of Srauta sacrifices solely.

The word Kalpa means procedure or formula (प्रयोग) and in this sense frequently occurs in the Kalpasūtras themselves (Āpastamba VI 18, 11 e.g.). It is used in medicine also in the same sense, viz. formula of a medical preparation. As meaning a work on sacrificial procedure, the word is used in the Mundaka Upanishad and also, as we know, in Pāṇini. His sūtra पुराणप्रोक्तेषु बाह्मणकल्पेषु shows that he knew of old and new Kalpas. The old Kalpas are probably all lost. They were probably not called Sūtras. This word is also old: but it originally meant a work with a continuous thread. The idea of brevity was subsequently developed. The earlier Kalpas must not have been as concise and short as the later ones are. This index may be used for fixing the relative priority of the extant Kalpasūtras, though it is not a decisive one. It can not be believed that these Sūtras were composed in opposition to Buddhism in support of animal sacrifices as Dr. Macdonell thinks (p. 145). It is more proper to suppose that the codification of the ritual of animal sacrifices took place long before Buddha arose and thus gave occasion for the rise of his philoosophy. The philosophy of sacrifice arose after Buddha and was embodied by Jaimini in his Purva Mīmāmsā Sūtras based on all the Kalpasūtras. Even the Dharmasūtras which are later than the Śrauta Sūtras preceded Buddha and even Pāṇini and also Yāska who, as mentioned by Macdonell himself, quotes maxims from some Dharmasūtras. These like the Gṛihya Sūtras now form part of Kalpasūtras no doubt, but are later additions. Thus Āpastamba Dharmasūtra, treated as the oldest by Macdonell, forms the 28th and 29th chapters of the Āpastamba Kalpasūtra, the 26th and 27th chapters forming the Gṛihyasūtra. The Śrauta Sūtras, however, form admittedly the earliest portions and we shall treat only of these in this section.

Note:-Detailed description of the extant Kalpasūtras

I Āpastamba

This Kalpasūtra seems to be the oldest of those we possess. It belongs to the Taittirïya S'ākhā of the Black Yajurveda which is also the oldest S'ākhā of that Veda. As Yajurveda is chiefly concerned with sacrifice, it is but natural that the Taittirīyins should first set about to lay down a Kalpasūtra for their S'ākhā. This S'ākhā is now chiefly found in Andhra.

The language of Apastamba's Sūtra is simple and the sūtras are not enigmatic and difficult of understanding as Pāṇinīya and other sūtras, conspicuous for their brevity, are. According to most scholars, the Gṛihya-sūtra which forms the 26th and 27th chapters of this Kalpa is less simple and belongs in our view to a different author. The S'rauta portion of which we speak here consists of 25 chapters, called Praśnas, a new name for chapter and each Praśna consists of several sub-sections called Kaṇḍikās, each Kaṇḍikā containing, on an average, about 13 sūtras, there being about 7590 sūtras in the 588 Kandikās of the 25 Praśnas.

This work has been edited in the Bibliotheca Indica series by Garbe in three parts. It speaks indeed volumes of the great labour the editor has taken, that he has traced all the quotations in it to their respective origins in the Samhitas and Brahmanas and has given lists of these references. There are many quotations from the Rigveda taken bodily and also from its Kaushītaki Brahmana. There are very few quotations from the Samaveda; but "quotations from its Panchavimsa Brahmana are copious especially in the Ahīna and Sattra sections". Twenty-five quotations are taken from the Atharvaveda; but as they are a little different from

those in the S'aunaka recension, they probably belong to the Pippalāda one. Many Brāhmaņas, not extant now, are quoted by name viz. Kankati, Kālabavi, S'ātyāyani, S'aitali and Bhāllavika. Kalingāyanika is a name not found elsewhere. It is remarkable that Aitareya is not mentioned nor Kaushitaki of the Rigveda: but the word Bahvricha is often used for them. The Vājasaneyakam is also frequently mentioned and we think that the reference is to the S'atapatha; and one is justified in inferring that the Kātyāyanasūtra of the White Yajurveda had not yet been written, as Vājasaneva procedure is noticed here. The name S'atapatha also appears to be later than the Apastamba Sūtra. We have already seen that the name Shashtipatha was once current. When a Brahmana is quoted without name, the words इति विज्ञायते are used as also यथा नाह्मणम्, यथा समाम्नातं or यथा वदति. Very probably the Taittiriya Brāhmana or Āranyaka is there meant, not a S'rautasūtra according to our view; but Garbe thinks that the Pravarādhyāya is taken from Āśvalāyana S'rautasūtra. We will discuss the question whether they both give independently what was common matter or whether one copies from the other, when we shall speak of Aśvalāyana. Several teachers are mentioned by name, e.g. Asmarathya and Alekhana; but they are probably not authors of Sūtras, but are two savants of opposite views. There is a commentary on this work by Rudradatta which extends only to fifteen Prasnas as published by Garbe.

The work treats of all S'rauta sacrifices, from the lowest Daršapūrnamāsa to the highest Aśvamedha and Purushamedha, in all their details. The procedure is laid down in detail and every action is described in words which, as Brahmin sacrificers even now do, have to be repeated while doing the acts indicated. This

method has enabled the several actions in all rituals to be fixed without any change or omission. Mantras accompany every action which are either taken from Samhitas or Brahmanas or are newly prescribed by this Sütra, as suitable mantras were not found in the Elaborate preparations are necessary for every S'rauta sacrifice. A separate sacrificial shed (যুল্লানা) has to be put up; every action connected with it such as the bringing of wood and of earth &c., the laying of the altars as well as the finding out of the required gold is described and has to be performed with certain mantras. One thus understands the propriety of the descriptions in the Rāmāyana and the Mahābhārata of the preparations for Asvamedha, including the excursion into the Himalayas for obtaining gold and the performance of ceremonies there before searching for it (V. 2, 1). It seems that gold was then obtainable in the rivers issuing from the Himalayas and anybody could gather There could be no higher sacrifice without a sufficient quantity of gold, as in the Dakshinas, gold or हिरण्य alias सुवर्ण is always prescribed by शतमान or hundred measures or at least thirty (त्रिंशन्मानं V 21, 10). It is also prescribed that Mana meant the usual weight of gold (येन हिरण्यं मिमीते). This shows that there were no gold coins in use then but packets of gold-dust weighing a fixed amount; and these were called Nishkas.

The different officiating priests were to get different Dakshinas, but generally all were to get clothes, one pair of bovine animals and a new chariot. (वासो मिश्रनं गावो नवं च रथं ददाति साधारणानि सर्वेषाम् ५१२०।११). More may be given, even six-fold and twelve-fold. But the condition of a poor sacrificer is also provided for and one cow only is prescribed for him. The mention of a new chariot is remarkable; whether with or without animals, horses, bullocks or mules is not mentioned. The craft

of making chariots seems to have flourished as we shall presently see.

These S'rauta sacrifices could be performed by all the three Aryan castes or Varnas viz. Brahmins, Kshatriyas and Vaisyas and a fourth class of Rathakāras is usually mentioned. But it seems from V 3, 19 that they belonged to any of the three Varnas and the commentator adds the explanation that an Aryan took up this profession for poverty. And as no other mixed-caste man is mentioned, it is almost certain that at the date of this Sūtra, mixed castes had not arisen and the progeny of mixed marriages among the Varnas belonged to the Varna of the father according to the old rule mentioned in Manu. This indicates a very early date for this Sūtra.

S'ūdras were not only not allowed to perform these sacrifices, but also were prohibited from even milking the cows for sacrifice. Further on, in particular cases, permission is given to employ a S'udra in milking (VI 3, 12); a S'ūdra, however, was permitted to grind the corn (पत्यवहन्ति ग्रहा पिनष्टि I 21, 9). It is further to be remarked that different mantras were prescribed in case of particular sacrifices for Brahmins, Kshatriyas and Vaisyas, thus emphasizing caste distinctions. Agnihotra, however, they were all eligible and no difference of mantras is to be seen. In a ceremony in V 11, 7 Rājan is distinguished from Rājanya showing that ruling kings were distinguished from ordinary Kshatriyas, and were called Rajaputras, a word appearing in the S'atapatha even. The word Asura in V 12 can not mean a Persian but must mean an imaginary terribly strong being (असुर इव पृष्ट: स्यात्). Gāyatrī-metred mantra is for Brahmins, a Traishtubha for Kshatriyas and a Jagata for Vaisyas.

The usual prayer of the sacrificer was for cattle (पञ्च) progeny (प्रजा) and food and wealth (अन and रे)-रायस्पोषाद

स्प्रजास्वाय स्वीर्गयित तेष्विहोत्रम्. The wife's presence at sacrifice was always necessary and this shows the importance attached to the wife. The householder in beginning the ceremony of Adhāna had first to shave and bathe and put on a silken cloth. The wife had to get her nails cut and to bathe and put on also a silken Sārī (शोमे बसानो). During the period of the sacrifice, they had to remain celebate and eat no flesh. Departure was allowed, however, at certain times and under particular conditions. Among desires, प्रामकाम is mentioned, which probably meant the gift of a village in inam or headship of a village. For glory or यहास, flesh oblations are prescribed and for spiritual power, Soma oblations (मसिन यशःकामस्य, सोमेन ब्रावर्चसकामस्य IV 15, i).

In higher sacrifices there were elected 16 priests, four in each branch and named as follows. In the Adhvaryu (oblation) branch, 1 Adhvaryu, 2 Pratiprasthātri, 3 Neshtri and 4 Unnetri. In the Brahman (supervisor) branch, 1 Brahman, 2 Brahmanachchhamsin, 3 Agnidhra and 4 Potri. In the Hotri (reciter of hymns) branch, 1 Hotri, 2 Maitrāvaruņa, 3 Achchhāvāka and 4 Grāvastuta. And in the Udgātri (singing) branch, 1 Udgātri 2 Prastotri, 3 Pratihartri and 4 Subrahmanya (X 1-9). The Kaushitakins, it is stated, added a seventeenth priest called Sadasya; but no Upadeshtri was needed. Where only four priests were to be chosen, they were of course the first four in each branch, viz., Adhvaryu, Hotri, Udgātri and Brahman. The priests were chosen with great formality and special mantras are prescribed for their election (X, 1, 14).

The contents of this Sūtra, are as follows: - (Garbe's preface to Vols. II and III).

Praśna

- 1-4 Darsapūrņamāsa with Yājamāna in K 4
- 5 Agnyādheya with Punarādheya in K 26-29

- 6 Agnihotra with Agnyupasthāna in K 16-23
- 7 Nirūdhapasubandha
- 8 Chāturmāsya with वैश्वदेव (1-4), वरुणप्रवास (5-8), साक-मेध (9-19), शनासीरीय (20-22)
- 9 Prāyaschitta
- 10-13 Agnishtoma (प्रातःसवन 10-12, माध्यंदिनसवन 13, 1-8 and तृतीयसवन 13-9-25)
- 14 उक्थ्य, षोडशिन्, अतिरात्र, अप्तार्याम, ऐकादशीन (1-12) and चातुर्होत्र, पंचहोत्र, षड्होत्र, सप्तहोत्र &c. (13-15) and प्रायश्चित्त
- 15 Pravargya
- 16-17 अग्निचयन
- 18 वाजपेय (1-7), राजसूय 8-22
- 19 Sautramani with कंकति and वेश्वसज, काम्य पुत्र, काम्य इष्टि
- 20 Aśvamedha in 1-23 and Purushamedha in 24-25
- 21 Gavāmayana, Utsargiņāmayana, Dvādašāha
- 22 एकाहा:, अहीना:, सवा:
- 23 सत्राणि
- 24 Paribhāshāḥ, Pravarāḥ and Hautrakāḥ.

After these general observations, we will notice important statements in the several chapters in their order. In the first Prasna, Darsa-Pūrnamāsa sacrifice begins with releasing of sacrificial cows in the morning with suitable mantras and these are new Anushtup verses given here. There was always a fear of Asuras and Rākshasas interfering with sacrifices at every step and mantras were recited for killing them, accompanied by suitable actions (अपहता असरा रक्षांसि वेदिषद; these are supposed to sit about the Vedi). Then there is performed first a sacrifice to the manes called पिण्ड-पित-यह which is like an ordinary S'raddha with अझन and अम्यझन of the The Bhrigus and Angirasas were the oldest. Vedic sacrificers and they are praised on this occasion. Vrihi and Tandula are words which occur, it appears. for the first time in these Sutras, meaning grain separated from the husk and thus applying usually to rice. What is आतश्चन does not seem clear. त्रयो वै गतिश्रयः ग्रश्रवान, ग्रामणी:, राजन्य: is remarkable, गतश्री meaning प्राप्तश्री:. The process of sowing grain, of milking cows, of unhusking corn in उल्लख &c. is strangely enough done religiously, being performed with suitable mantras for each act. Whatever falls on the ground is for ter: and these and enemies (अमित्राः) are constantly driven away. Probably, in early Aryan settlements enemies and cannibals actually interfered with the Aryan sacrifices; but in the times of the Kalpasūtras, these had become imaginary beings. The Abhichara or magic action is always levelled against them and against Sapatnas and Bhrātrivyas, the phrase योऽस्मान देष्टि यं च वयं द्विष्म: constantly occurring, showing that these Taittiriyins were very strong in their feelings of hatred.

Having described दर्शपूर्णमास in I, II, III and Yājamana in IV, in V we have Agnyādhāna and Punarādhāna, the Nakshatras for the first being इ. रो. मृ. पुन. पु. and उ. ह. चि. (only for Kshatriyas) वि; and for the latter पुनर्वस्. Falguni Purnamāsī is declared to usher in the new year. For seasons वसन्तो ब्राह्मणस्य, प्रीष्मो राजन्यस्य, हेमन्तो शरद्वा वैश्यस्य, वर्षा रथकारस्य. (The commentator shows here that the new rule मीनमेषयोर्वसन्त: is not to be taken here but फाल्ग्नचेत्रयो: and the months may be चान्द्र or सौर. In the Vājasaneyaka, अक्षमेघ is begun in वसन्त only, while संख्याबाद and आश्वलायन give different times). They had to go out and build a shed according to S'ālīna, but not according to Yāyāvara. The erection of sheds is described in detail, with a shed for guests to the east. The trees for sacrifice or for building a sacrificial shed are mentioned as अश्वत्थ, उद्भवर, पण, शमी, विकंकत, अशनिहत and वष्करवर्ण.

In VI one is surprised (in 18, 3) to find Agni as lord of the east, Indra of the south, Soma of the west,

Mitrāvaruṇan of the north and Brihaspati of the direction above (ऊर्ध्वन्). Rik-Mantras are named by their authors as बात्सप्र, गोषूक्त, आश्वस्क्त. &c. The householder is to sacrifice with इयामाक in वर्षा:, with बीहि in शरत, with यव in वसन्त, (यथतुं वेति VI 3,14). This indicates the seasons and their corns in the middle land (मध्यदेश) of India. The आग्रयणेष्टि is described at the end.

Praśna VII relates to ব্যৱস্থ or animal sacrifice which secures all heavens to the sacrificer!!! (सर्वान लोकान पञ्च-बन्धयाज्यभिजयति (1, 1). The Sambharas include गुल्गुल, सगन्धितेजन, श्वेता ऊर्णास्त्रका and among vessels and instruments हृदयश्र्ल, असि, कुम्मी &c. (स्पयमिन्नहोत्रहवणी वसाहोमहवर्नी हितीयां जुहूं पृषदाज्यधानी हितीयामुपभृतं हे आज्यस्थाल्यो हृदयश्रूलमि कुम्भी प्रक्षशाखा शाकपवित्रं कारमर्थमध्यो वपाश्रपण्यो द्विशलां एकेश्ला औदुम्बरं मैत्रावरुणदण्डं आस्यदन्नं चुबुकदन्नं वा रशने च VII 8, 3). The animal selected should not be काण, खण्ड, वण्ड, स्रोण, बिनपुच्छ, पङ्क &c. An अवट (pit) is to be dug for receiving refuse and ऊवध्यगोह is mentioned for covering ऊवध्य (उदर-गत अशुद्ध). तस्मिन्संज्ञपयन्ति प्रत्यक्शिरसम्दीचीनपादम्. (Com. explains संत्रपन as अक्षतस्य मारणम्). यत्र यंति सुकृतो नापि दुष्कृतस्तत्र त्वा देवः सविता दधात etc. इत्युक्त्वा पराङावर्तते यजमानः (VII 16, 7). निर्दग्धं रक्षो निर्देग्धा अरात्यः is also pronounced. The division of the animal's body among oblations to gods and gifts to priests is clearly laid down. The शमित or cutter is a Brahmin; but if he is not, he gives his portion (VII 27, 13) to a Brahmin.

Praśna VIII describes the Avabhritha. It is to be taken in any direction; but not in the north in the view of some teachers (VIII 7, 18), why it is not clear. The Chāturmāsya sacrifices of which we have already spoken viz. ইশ্বইৰ, বহুণস্বাম and মাক্ষম in the three seasons follow.

The same chapter gives particulars about mantras and Samans to be recited at the morning, noon and evening Savanas. Many names are new to us, like विद्वार, महावाळभित. The प्रतिगर, ओशासो देशेस is lengthened in

different ways. Sampāta, Kadvanta and Kuntāpa Sūktas are to be recited in प्रष्ठ, पळह &c. गोरायु is a new term. The Sāmans with their Yonis are detailed for each day and many details are given which it is difficult to grasp for a layman.

Prašna IX gives the Prayašchittas and begins with the well-known dictum विध्यपराधे प्रायक्षित्तं (श्रुतिलक्षणं विधीयते). They are जपो होम इज्या च (3); निहते दोषे पुनः कृत्सं कर्म. The faults include cows not giving milk for sacrifice or the wife's being in courses &c. or when insects fall into oblations or fire goes out or is not created in churning (then sacrifice is allowed on the palm of a Brahmin's hand or in Darbhas or in water), if the Sun or Moon rises before आहुति or the oblation milk fall out of hand, if Agnihotra is broken or one of the fires (स्तोते शक्षे वा मृदे).

The tenth Prasna is very interesting and gives details of the Soma sacrifice, the basis of Agnishtoma (सोमेन यक्ष्यमांणो बाह्मणानार्षेयान्वृणीते यूनान् स्थविरान्वानुचानानुर्ध्ववाचोनद्गद्दीनान्) in which only young learned Brahmins of the same Pravara are to be elected as provided for in the Chhāndogya Brāhmana. This is mentioned for the firsttime here, because the Soma sacrifice is chiefly accompanied by Sama-singing. The sacrifice is identified with the universe, the Agni being looked upon as the Hotri, the Sun as Adhvaryu, the Moon as Brahman, Rain as Udgātri, the Ākāśa as Sadasya and sun's rays as चमसाध्वर्यव. Soma is also performed in Jyotishtoma, Atiratra and other higher sacrifices. A Devayajana (देवयजन) or sacrificial ground is to be obtained from the king outside the town and a sacrificial shed. is to be erected thereon. Every detail is prescribed withthe special mantras for it, the erecting of Military, the keeping of doors on four sides, even the corners. sacrificer is then ordained with several ceremonies as also his wife. They bathe and put on new silken garments; the wife has कुंबकरीर on the head and the sacrificer puts on a turban. After taking food they go to the यज्ञशाला reciting the Vedas (ऋक्, साम, यजूंषि is the order here given and Atharvaveda is not mentioned-कचरत्वा दीक्षमाणमनुदीक्षन्ताम् । साम...। यजूंषि... X 11, 1). The Dikshā is born of Brahman or Veda and hence when the sacrificer is ordained for Soma, even the Rājanya or Vaiśya is to be treated as a Brahmin (तस्मादाजन्यवैश्यावेव बाह्मण इत्यावेदयेते X 11, 6). He enters upon a strict course of life. He should not speak with any woman or S'ūdra; should not spit or sneeze or vomit; and if he does by chance, special mantras are to be recited. (सहान = नासा-सुतश्चेष्मादि is also to be avoided or atoned for). He is to eat only इवि: क्षेष (दुग्ध for a Brahmin, यवागू for a Rājanya, and आमिझा for a Vaisya). 'The fat sacrificer thus gets lean and thus becomes fit for Soma' (पीवो दीक्षते कृशो यजते).

Soma is called king (राजन्). He has to be purchased especially of a कृत्स-गोत्र Brahmin or else a S'ūdra. The seller is first asked to clean Soma (सोमं शोधय) by removing all other things mixed in it. (It is difficult to imagine what Soma was like). This cleaning was not to be done by the यजमान or any of the priests. Then the प्रायणीय ceremony was performed and the Soma was purchased for a particular kind of cow. It is taken in a chariot to a hill, taken to its top on the head and then brought back from it. (This is perhaps a reminiscence of the fact that Soma was to be brought from the Himalayas). The purchasing again takes place with a strange ceremony ending in payment of gold (which was a hundred in वाजपेय, two hundred in राजसूय and a thousand in अश्रम X 26,9). It appears that the gold was taken back and a cow given. If the seller disputed, he was to be struck with sticks according to some savants (लक्टेंग्रेन्तीत्येके X 27, 7). Then it is taken in a chariot

to the sacrificial shed with mantras where, on arrival, it is given a regal reception and is placed on a throne (आसन्दी), with the present of an ox which is released after presentation.

In XI further particulars are given about the same sacrifice with particular injunctions as to the sacrificial shed. विराइस सप्तनहा सम्राइसि भ्रातृत्यहा स्वराइस्यभिमातिहा विश्वाराइसि विश्वारा ना(रा?)श्राणां हतिति बाहू उपावहरतोऽध्वर्युर्यजमानश्च (XI 12, 2) is inexplicable. प्रवर्ग्य, उपसद् and अभीषामाय are described. The Soma is partaken of by the sacrificar after his wife and Amātyas are honoured. The word संतिष्ठते is everywhere used in this Sūtra to show that the ceremony is ightly finished. The sacrificer guards the Soma durng the night.

h the next chapter (XII) is described the process of extacting the Soma, it being crushed with stones while স্থৌঃ mantras are recited (what is বন্তন্ম mentioned alon with रक्षोन XII 2, 15?). The rite differs in the moning, noon and evening Savanas. Yava and लाजा (of बीहि are used (तण्डलानोप्य धानाः कराति बीहीनोप्य लाजान्करोति XII 4, b). Saktus mixed with water or ghee are called करम्भे The मूजवत् mountain where Soma was originally foud is remembered (सामस्य त्वा मूजवता रसं गृहामि (XII 5,11). यं कायेत पण्डक: (क्लीब:) स्यात्तं प्रचरण्यापरपृशेत् XII 7, 1 is Juice came out in drops (अंগ্র) which were offeed to fire and then taken. For अभिचार the words हतोत्रे फट् are to be uttered (XII 11, 10). The juice is strated over a cloth into which होत्चमसेन धारां यजमानः The mantra is पवित्रं ते विततं ब्रह्मणस्पते &c. सावयं. whi different Samans (रथंतर, बृहत्साम &c.) are sung. The cereony is called महामिषव. (घास = मक्ष XII 12, 11). To enab a man to return to the MH or to turn out one. a ri is prescribed (XII 15, 2). The सोम flows (पनते) for e good of all, Brahmins, Kshatriyas and Vaišyas Sc. A Rajaputra protects the Soma extract till it

is used (XII 16, 4). It is kept in द्रोणकरुश (अर्धपूर्ण according to Kātyāyana, com.). यत्र धारा विरमति प्रपीड्य पवित्रं निद्धाति (XII 16, 10). The Soma is poured with mantras and Sāmans by all. Different animal sacrifices follow in different higher sacrifices. New mantras are prescribed for offering Soma to Agni. For injuring enemies कण्डामके are mentioned. Each priest takes his चमस (wooden cup) full of सोस from the द्रोणकरुश and offers it to the fire. If a Rajanya or Vaisya wishes toeat Soma, a rite is performed and then it is given to lim to eat. Then the priests eat with one another's permission (like tea) नातुपद्गतेन सोमः पातवे सोमपथिन इ व्यक्ति सर्वति (XII 24, 14). The drinking is to the health of gods (dual इन्द्रामी &c.). Every action is minutely proviled for, such as सर्वेषां सोमपात्राणां मक्षितानां मार्जालीये प्रक्षालनम् (III 27, 10. (Even washing of tea-pots is thus not forgottn). The होता then cries शोसांवाम or ओथामोद and अध्वर्ध relies भोषामोद एवं होतः &c. which is called व्याहाव. Nārāśansa follows and also S'astras. संतिष्ठते प्रातःसवनम् (Thus is ompleted प्रातःसवनम्).

In Praśna XIII we have the noon Savana descried, particular injunctions being given also in XII. Speial হালাজ are provided for নহয়েও but not to him who sks and not to হত্ব and হয়েও (Com. adds ইনুগ্রি-য়েঃ), nor b a non-Brahmin nor to an unlearned (XII 7, 7). Probbly the same Soma is used, as no new one is bought. In Kārikās 8-24 the evening Savana is described.

Praśna XIV gives the Vikṛitis of Agnishṭma viz. उत्थ्य, बोडिशन्, अतिरात्र and असोगोम and then describes them in detail. In one place we find a rite prescried, if it is wished that the अत्र (in a Rāshṭra) shou be superior to the विश्. The rite reversed would ake विश् superior to the सत्र (XIV 6, 9). असी ते पश्चरिति व्यासायायाया यदि न द्विष्यादाख्यसे पश्चरिति त्यात् ॥ (XIV 5) shows that rats were then hated. बासिशो त्रक्षा ज्योगोने

shows that in Soma sacrifices the Brahman was to be of the Vasishtha gotra (XIV 8, 1). स्ताममागाना दशाति द्वादशामिष्टोमे पश्चदश्चेन्थ्ये। बोडश बोडशिनि। सप्तदश वाजपेये एकोनिर्वशतमित्रात्रे वयिक्वंशतमप्तेषोमे। XIV 10 4 should be marked. In all Somas they went towards the south for Avabhritha. सोमाय वासः। इदाय गाम्। वहणायाश्वम्। प्रजापतय पुरुषम्। मनवे तल्पम्। तब्धेऽजाम् । अभये वा निर्कत्या अश्वतरगर्दभो। हिमवता हस्तिनम्। विश्वेभ्यो देवेभ्यो धान्यम्। ब्रह्माण ओदनम्। समुद्रायापः। वश्चानराय रथम्।

Chāturhotra is hereafter described. A Brahmin who does not earn fame should perform it or a king who is fighting a battle (XIV 14, 5). Higher Hotras are also prescribed for other desires. Many mantras are taken from the Rigveda here such as those of the Rishi Gaurivita and क्याशुभीय of Agastya (पंचसवनी यज्ञ:, त्रीणि सवनान्यवभूथोऽन्बध्येति). The contingeny of the sacrificer dying before अवस्थ is provided for (XIV 21, 8). When the sun does not come out after morning prayer, दास्तवी Riks should be recited. Dāśatayī refers to the Rigveda (probably the अप्टक division had not yet been made or recognised). If Soma is obtained without purchase, it should be taken out and purchased. If Soma is unobtainable, other herbs are substituted such as प्रतिका, श्वेतत्लानि फाल्युनानि or milky herbs, असणद्वी or हरितकुश as Vajasaneyins prescribe and if none of these, finally alguas to be mixed with whole milk (प्रतिधुक्) in the morning, skimmed milk (মন) in the noon and curds in the evening (XIV 24, 14). If the pounding stone is broken or the Kalasa broken, certain mantras should be recited in प्राथमिन (XIV 24). Hiranya appears to be of two kinds, Have Many other Prayaschittas are prescribed for untoward incidents, such as loss of Brahmacharva of the sacrificer, or black birds (crows) entering the shed and touching the Havis, or some danger coming (XIV Finally a सर्वप्रायेश्वित is recommended with the mantra नमी बहाणे &c. if nothing could be done as previously prescribed.

Praśna XV relates to the Pravargya ceremony preparatory in higher sacrifices such as Jyotishtoma. A Mahāvīra is to be made of earth dug out with ceremony. It is placed on Āsandī (throne) and certain ceremonies are performed. After Pravargya, many vows are to be observed for a whole year (संवत्सरं न मांसमञ्जीयात् न रामामुपेचात् न मुण्मयेन पिवेत् नास्य रामा उच्छिए पिवेत् । XV 12, 13). A human form is allegorically conceived (XV 15, 1). Then it is thrown in different ways for different desires including the killing of a hated person who is named: ताजगातिमाछेति (ताजक् = सय: com.). After this, Prāyaśchittas are prescribed for various mishaps and mistakes. The chapter ends with other minor Dīkshās for magic (अभिचार) and ill omens described in T. B. (इत्हेष्ट &c.).

The Prasnas from XVI onward relate to higher sacrifices and probably as these were never performed in the time of the commentator, he has not commented The sūtras on these, read by themselves, on them. show very elaborate preparations for these higher sacrifices, commencing with going out of the town and digging earth and bringing it on the backs of horses and even asses, with appropriate mantras for each action. A preliminary sacrifice of a রুণ্ অর (hornless sheep) is performed (XVI 8, 3). If rain is wanted, a rite is prescribed and another to prevent rain. Bricks are to be prepared and then altars built, the pit being deep as the knee (जानुदन्न) for the man sacrificing for the first time and deep up to the navel (नामिदम) for others. Bricks are तुष्पक i-e. burnt in husk fire. Ploughing of ground is also mentioned with six, eight or twelve bullocks drawing the plough (ভাৰত) and grain is sown. The grains mentioned are तिलमाषाः, ब्रीहियवाः, त्रियह्नुवेणवः, गोधुमाः, वेणुस्यामाक-नीवाराः and जिंदेलाश्च ग्वीधुकाश्च some of which can not be recognised. गामैकसप्तमाः or कलत्यसप्तमाः is added. Dürväs are to be secured with the mantra now usually used (काण्डात्वाण्डात्प्रशेहिन्त, probably first prescribed here—XVI 2, 1). It appears that human heads and animal heads were put in in the building of altars called चयन.

The elaborate detailed rites of the higher sacrifices show how the Aryans had developed a craze for sacrifice and a superstitious belief in its efficacy for securing each and every human desire. The mantras also had attained miraculous powers, irrespective of their meaning and so also the acts in the ritual which secured the desired fruit only if performed in the prescribed manner but which became harmful to the sacrificer, if wrongly performed. Ritual had thus attained an esoteric meaning and importance and was as unchangeable as the Vedic mantras recited in it; hence the importance of these Kalpasütras which were enunciated by different schools of Vedic teachers. Some of these sacrifices were to be performed by kings only and the power of the Kshatriya rulers was enhanced by the performance of these sacrifices. It is wrong to suppose that Brahmins imposed their beliefs upon the Kshatriyas. philosophical speculation, so in sacrificial elaboration, both Kshatriyas and Brahmins were equally concerned; the former wished to impress the imagination of the people (the Aryan Viś and Non-Aryan S'ūdra subjects) by these gorgeous sacrifices; the latter wished to exhibit their skill and learning by multiplying ritual by permutations and combinations of different sacrificial rites. In the following descriptions of the different higher sacrifices. these observations will assist the reader and prevent wrong inferences.

The eighteenth Praśna describes Vājapeya, open to Brahmins and Kahatriyas (शरदि यजेत ब्राह्मणा राजन्यो वर्दिकासः) for prosperity. In this sacrifice गोधूम and सुरा are used. Everything is to be seventeen. The Dakshinas also

are to be 17 elephants or 17 horses, 17 nishkas, 17 dāsīs and 1700 cows and 17 chariots. A Rājaputra throws 17 arrows. After the homa of Vāja, the sacrificer should perform Sautrāmaņī or Brihaspatisava.

Rājasūya is then described which only a king can perform for obtaining Svarga (राजा स्वर्गकामी राजसूयेन यजेत), showing how Yudhishthira was asked to perform this sacrifice by Pandu who was in heaven. It was the same as Agnishtoma with Dakshina a thousand-fold or a lakh fold (शतसहस्रदक्षिणा). The sūtra XVIII 12, 7 is remarkable; एष वो भरता राजेति । एष वः कुरवो राजेति कीरव्यम । एष वः पंचाला राजेति पश्चालान् । एष वः कुरुपञ्चाला राजेति कुरुपांचालान् । एष वो जना राजेत्यन्यान राज्ञ: shows that there were generally three families of kings: Bharatas, Kurus and Pānchālas. The Kuru-Panchalas must be different from the above. The Brahmins were outside the power of kings; for they recited the mantra सोमोऽस्माकं बाह्मणानां राजीते बह्मा जपति. The king's Abhisheka was performed with waters of the sea and of the Indus or any other river which has a masculine name. This shows that by that time certain big rivers had names masculine in gender (प्नदी e. g. सिंधुनद, शोणनद). The king then played dice which was thus a necessary function in Rajasūya. The S'aunahsepa Akhyāna is recited or other Riks with Gāthās (story The king has to inform other kings that he verses). wishes to perform a Rajasuva. This is like the modern custom of informing other powers of the assumption of royalty. The Rajasuya is practically a ceremony declaratory of the assumption of king's dignity.

Praéna XIX describes the Sautrāmani wherein Surā (liquor) is offered as libation and drunk. The Surā and the Soma are brought together and offered to Indra (सुस त्वमिस दुष्मिणों सोम एव मा मा हिंसी: XIX 3,). The hair of a lion, a tiger and a wolf are required. What is हरित जिल्ला (XIX 2, 6) can not be explained. A special form of this sacrifice is also described viz. की किसी सीवामणी.

We have next the Savitrachayana, described in T. B. with names of 15 days (संज्ञानं निज्ञानं etc.), 15 nights, 15 muhūrtas (चित्रः केतुः &c.), 13 month-names अक्षाः अक्षारज्ञाः &c. (XIX 12). Then Nāchiketa and then Vaisvasrja come as described in T. B. Then we have various कान्य पशु and कान्य इष्टि "mentioned in Brāhmaṇa" in detail described (XIX 18, 2). आदित्यचरं निर्वेपेतंग्राममुपयास्यन् (XIX 19, 1) प्राजापत्यां शतकृष्णलां निर्वेपेदायुष्कामः &c. Other similar ceremonies are finally described.

The 20th Praśna describes the Aśvamedha which only an emperor can celebrate; but later even an ordinary king is permitted (राजा सार्वभौमो अश्वमेधेन यजेत । असार्वभौमो वा। XX 5, 2). It must begin on Vaiśākha Purnima with the sacrifice of a प्राजापस ऋषम or तपर on the following अमानास्या. Probably the word तस्याः here shows that the months ended with Amāvāsvā with the Taittirīyins. The four Brahmin chief priests were to be given as Dakshina सहसान सौवर्णान निष्कान and अश्वतरीरथान (chariots drawn by mules). The details of the colour &c. of the horse selected for sacrifice are given and a dog is to be killed near its ears. It was then surrounded by a hundred Rājputs with the Adhvaryu, a hundred Ugras who are not kings (अराजभिहमें:) with the Brahman, a hundred Süta-Grāmanis with the Hotri and a hundred Kshattrisangrihītris with the Udgātri on the four sides, as already described in Section II when speaking of the Brāhmanas. When sent on its wanderings, the horse with its party was to put up in the house of a Rathakāra (XX 5, 16). Even a Brahmin's house was to be looted for food if he did not know the Asvamedha ritual. The party returned at the end of a year during which various ceremonies were performed in the sacrificial shed, accompanied by singing on the Vina (वीणागायं गायति) and the Pāriplava was recited by the Hotri. If any mishap overtook the horse, another was to be substi-

tuted; but if an enemy seized and removed it, the Aśvamedha was destroyed (अमित्रा अश्वं विन्देरन् इन्येतास्य यज्ञः XX 8, 1). After its return, on the last Amāvāsyā of the year, the उदा ceremony took place with many animal sacrifices, and the Dakshinas given were the most astounding, viz. the property of all people except Brahmins in the four directions to the four priests (दक्षिणाकांल यदब्राह्मणानां दिक्ष वित्तं ... ददाति XX 9, 14). After many ceremonies and animal sacrifices, the principal sacrifice commenced with the decoration of the horse by the queens of the sacrificing king. The three queens mentioned are महिषी, वावाता and परिवृक्ती. These were to be attended by one hundred Rajaputris, one hundred wives of Ugras (not kings) and of Sūta-Grāmaņīs respectively. The Mahishī put on the horse golden ornaments, the Vāvātā, silver ones and the Parivriktī, marine ones (shells, coral &c.). The horse was then led in procession by the king taking his bow and arrow to a pond to drink water and the horse drank water while a prescribed mantra was recited. After being brought back, it was killed along with a तुपर and गोस्म, how is stated as follows: वेतसशाखायां तार्पं कत्त्यधीवासं हिरण्यकशिपु चारतीर्य सोवर्ण इक्स-मुपरिष्ठात्कृत्वा तस्मिन्नश्चतूपरगोमृगानिप्तन्ति ॥ अक्षशास्त्रायास्त्वितरान्पशून् । (XX 17, 8) श्यामलेन क्षोमण वाश्वं संज्ञपयन्ति । स्पन्धामिरितरान् पश्चन् । (9). We are reminded here of the description in Valmīki Rāmāyana wherein the horse is stated to be killed by Kausalyā with three sword strokes. The description is detailed and shows that the writer had accurate knowledge of the Asvamedha ritual. But the word विश्वशास is strange: कोसल्या तं हयं तत्र परिचर्य समन्ततः। कपाणैविश्वशासैनं त्रिभिः परमया सुदा (I 14, 33). The commentators refer here to the Sütras but they speak of cutting the dead horse much as the lady of the house carves the meat on the dining table among western peoples. The subsequent ceremony of making the chief queen lie with

the dead horse, an old absurd custom, was then gone through. Eventually the aqu of the horse was offered as oblation into the fire. The ceremony ended with Avabhritha after many animals were sacrificed and Dakshinās were finally given again.

The Purushamedha, taken from the White Yajurveda by the Taittiriyins in their Brāhmaṇa, is hereafter described. It could be performed by any Brahmin or Kshatriya (ब्राह्मणो राजन्यो वा पजेत) for power and strength (ओजो वीर्यमाप्राति). It lasted for five days. The victims as described in T. B. were to be tied to several sacrificial posts and after being offered formally, they were to be taken north and set at liberty, as expressly stated in sūtra XX 24, 10 (परिभिन्दतानुदीचो नीत्रोत्स्ज्याज्येन तद्देवता आहुतीहुत्वा &c.). The Dakshiṇā was that in an Aśvamedha for a Kshatriya and in Sarvamedha for a Brahmin.

The Sarvamedha is finally described in this chapter which only a king could perform (सर्वमेषो दशरात्रः। राजा यजेत यः कामयेत सर्वमिदं भवेयमिति। XX 25, 4). It lasted for ten nights and every day a different sacrifice was performed viz. अप्रिष्टोम, इन्द्रस्तुदुक्य, स्प्रेस्तुदुक्य, वैश्वदेव उक्य, अश्वमेष (तस्मित्रश्च मेध्यमालमते), पुरुषमेष, अप्तार्थाम, त्रिणव, नवम, विश्वजित्सर्व-पृष्ठोतिरात्रो दशममहः. Thus this was a combination of all higher sacrifices and the Dakshinā was accordingly the greatest; viz यदबाह्मणानां दिश्च वित्तं तस्सम्मि सपुरुषं ददाति यथाश्वमेषे. This was probably symbolical and not real, as in the case of Farasurāma's sacrifice in Purāṇas.

Praéna XXI describes first the द्वादशाइ. In one sutra, Prajāpati is said to be blamed by some for creating insects which bite (दंश) and mosquitos and thieves (XXI 12, 1). Then न्यायोग and उदयमीय are described. Next ग्वामयन which secures progeny, prosperity and also Svarga, is described. It ends with Mahavrata. Various differences are noted between सावायोग, तार्वाद and

भाइतिनः with whom Apastamba agrees. A प्रश्न and माग्य are mentioned together in XXI 17, 19 where the former is a harlot and the latter is her singer. A curious festival of rejoicing marks the close of this year-long sacrifice and Asmarathya and Alekhana differ as to the manner of its calebration. अपावाटलिकास्तंबळवीणाः पिच्छोलः इति पत्न्यो बादयन्ति (XXI 19, 3, 4). Tambala and other words are not Dravidian but are the names of instruments which are not now known and hence their absence from classical literature. Conches are blown and nadis. The harlot and her dancer fight. But more curious is the mention of a S'ūdra and an Arya fighting a mock fight with skins: श्रदायें। चर्मकी व्यायच्छेते. The S'udra abuses and the Brahmin praises. Then Rajaputras throw arrows. Dāsa girls make three circuits dancing, about the मार्जीलीय. (शंखानाळोस्तणवानिति...ळ here is inexplicable; it belongs to Rigvedins). दुन्दुमीः समाध्यन्ति । पुच्छकाण्डेन भूमिदुन्दुमिम्. The भृभिदंद्रि mentioned here means a pit dug in the ground and then covered with a skin and it is to be struck by both S'udra and Arya. This festival of rejoicing is called माहेन्द्र (held in praise of Indra the great.) Alekhana prescribes a still more jubilant festival which is as follows:- हिल्लुकां द्वे गायेताम् हिम्बिनां द्वे। हस्यादारां द्वे। सबत्सरगाथां द्वे। Cows are praised गावी घृतस्य मातरस्ता इड सन्तु भूयसी: । ननु गावी मंकीरस्य गंगाया उदकं पिनुः । पपुः सरस्वती नदीं त्राचीश्रोज्ञगाहिरे ॥ &c. यदा यखाल्यो वदतः प्राम्यमङ्कीरदाशकी । क्षेमे च्युद्धे प्रामेणानङ्गस्तप्यते वहन् ?। हैमहा इदं मधु हिल्छं हिङ्किति सर्वासामृग-न्तेषु समय:। This brings out the common language of the people of which many words are entirely lost.

The sacrifice, it is important to notice, began with the fourth day before Pürnamāsī of Māgha according to Āśmarathya and of Chaitrī according to Ālekhana. After 6 months came the विश्वत or दिवाकीत्य. If बाजी full-moon be taken to be the winter solution day of Āśmarathya's time, his date would be about 1900 B. C.,

the same as that of the Maitrayaniya Upanishad given in Section II (p. 213).

In Prasna XXII Ekāha and Ahīna sacrifices are described which are of the nature of Agnishtomas in which दक्षिणां like सर्ववेदम are given. There are some curious practices as इथेनन:भिचरम्यजेत्। अग्नय रुद्रवते लोहितः पग्नः। बेभीतकः इध्यः। लोहितोषणीयाः लोहितवममाः निर्वाता ऋत्विजः प्रचरित। (XXII 4, 22): Four stomas are described including ब्राह्मस्तोन. Agnishtoma with peculiar Sāmans are also described like बृह्स्पतिसन. Various other sacrifices are prescribed for various desires (13), one of which is for a Kshatriya king who gets no kingdom for himself though he tries. A पृष्टिकाम Vaisya may perform the बृह्स्पतिसन in a particular way. Finally, a king's अभिषेक is detailed: राजाभिषेक्षमाणो जनपरेषु समन्तेषु &c. (XXII 28).

In XXIII are described Sattras, अतिरात्र, गत्रामयन &c.. their nature being that of द्वादशाह. The performer of पश्चदशरात्र becomes a god (देत्रत्वं गच्छति). A S'ataratra is also mentioned. आदित्यानामयन, वृतिवातोरयन, शाक्त्यानामयन, (एतेन वै शाक्त्यो गोरिबीति: &c. &c.) तपाश्चेतामयन, प्रजापते द्वादशसंवत्सर, साध्यानां शतसंवत्सर, सारस्वत सत्र are described. The last was performed on the left right bank of the Sarasvatī and at different places. After a year a sacrifice in नैतन्थन is prescribed on the south bank of the त्रिष्ठक्षं प्रति यमुनामवस्थमस्यवैति. The sacrificer immediately disappears from men (तदेव मनुष्येम्यस्तिरो मनति XIII 13, 15). A तुरायण is mentioned as also a सर्पसत्र by which old age is prevented (सर्पाणां सन्नेणाप जतां धते XXIII 24, 8). Finally comes the imaginary thousand years' Prajapati's sacrifice by which he created the world. A śloka is here quoted, the same being not Vedic.

Prasna XXIV may be a later addition, as Garbe thinks, as it contains some later dicta, chief of which is the well-known पत्रवासणयोदनावश्यम् and the sutras here are in the later form of brief sentences.

It gives the general rules for all sacrifices Sacrifices were open to all the three Varnas; but Brahmins alone could be Ritviks (priests). The Atharvavedin had not yet advanced to the highest position as Brahman; he still performed his duties with the help of the three Vedas, Hotri using Rigveda, Adhvaryu Yajurveda and Udgātri Sāmaveda. Full moons are of three kinds: पूणिमा, अःपूरिका and खिनेका. XXIV 12 gives some ritual for destroying one's enemies by using different forms of नषट् such as नाषट्, नेषिट्, नेष्ट, नेषिट्, नेष्ट, नेष्ट,

II Baudhayana

This Sūtra belongs to the Taittirīya S'ākhā of the Black Yajurveda and is looked upon as the oldest Sūtra of that S'ākhā. It has been published by Caland in the Bibliotheca Indica Series in three volumes, dated 1905, 1907, 1913. It consists of 30 Prasnas divided into Kandikās, which are again formed into arranged in Adhvāvas. The Kandikās consist of one long sentence in the Brahmana style (e.g. आयतनवान भवति य एवं वेद 14, 5 The prose is simple and the description goes into the minutest details. The contents of Vol. II and III are printed from a complete and more reliable manuscript. in the Mackenzie collection at the India Office. Sūtra, as given in this manuscript even, is more of the nature of a Paddhati than Sūtra. This perhaps shows that the Sutra is older than Apastamba which itself is in the not yet fully developed condensed style of Sütras.

The contents of Vol. I relate, as usual in Kalpasūtras, to Ādhāna, Punarādhāna, Agnihotra, Daršapūrnamāsa, Chāturmāsya and Pasubandha. The contents of Vol. II

from Praśna 10 relate to Ukhā, Vājapeya, Rājasūya, Ishtis, Soma, Aśvamedha, Dyādaśāhas, Atirātra, Brihaspatisava and Savitrachavana. The contents of Vol. III appear distinctly to be later additions. Prasnas 20 to 23 form what is called Dvaidhasūtra; 24 and 25 form the Karmantasutra; 26 to 29 form Prayaschittasutra and 30 forms S'ulvasūtra. The latest addition is clearly that of the Pravaradhyaya, as shown in our note on The S'ulvasutra commences with defining the measures अंग्र. पद. प्रकम &c. and then describes how the Ayatanas (houses) are to be built of 8 प्रक्रन for Brahmins, 11 for Kshatriyas and 12 for Vaisyas; how Pragvaméa is to be set up, how bricks (হছরা) are to be prepared and laid and how altars of different forms like इयेनचिन (vulture form, वक्रपक्षा व्यस्तपुच्छ: and others) are to be built. This may be an earlier form of the separate S'ulvasūtra we have, but is itself a late addition.

The procedure of the highest sacrifices described in Prasnas 10 to 19 in the second volume shows, however, that this part is really older than Apastambasūtra as the ritual differs in important particulars and embodies an earlier stage of the development of S'rauta sacrifices. We may first take for instance the Asvamedha ritual laid down in Prasna 15. This sacrifice is for राजा विजिती सार्वभौमः and not for any king optionally as in Apastamba. The guards of the horse are the same; but Rajaputras are described as Talpya (?) and their description is as simple as in T.B. There is no provision to the effect that the guards in their ramblings are to stay with a Rathakara and live upon the loot of Brahmins who did not know the Asyamedha ritual description of the preparations for the sacrifice in the meantime is very detailed and interesting. It shows how many callings there were and what things the artizans manufactured. (We give this description in the

original in the Appendix). The sacrificing king is employed in various sacrifices in the interval such as वरण-प्रचास &c. not mentioned elsewhere. When the horse returns, there is jubilation and the queens decorate it for sacrifice. Three queens only are mentioned, viz. महिषी, वाबाता and परिवृत्ती, and not the fourth, पालागली. Ugras are not mentioned, but are described simply as Arājāh. While the horse is being killed, the priests ask one another philosophical riddle questions already noticed in T. B. There is a new query here: किंस्विदासी-त्प्रविचित्तः किंखिदासीट् बृहद्वयः । किंखिदासीत्पशङ्गिला किंखिदासीत्प-लिपिला. And the reply is दौरासीत्पूर्वचित्तिरश्व आसीदबृहद्भयाः । रात्रिसांतिपशिक्तला विसासीत्पिलिपिला ॥ (?) which is queer and not mentioned in Apastamba. The three queens only are again mentioned as showing with gold, silver and lead Suchis how the dead horse is to be cut with swords. The sacrifice over, subsidiary sacrifices like सौत्रामणी are performed for two years more and thus the Asvamedha really lasts for three years (संतिष्टते अभेधिकासिः संवत्सर:). Finally there is no mention of stupendous or even any Dakshinā at the end as in the other Sūtras ; once or twice only शतप्रमान gold is prescribed as Dakshinā.

We will give the interesting portions of the contents of the other prasnas commencing with the 11th. The 11th Prasna describes Vājapeya without saying who can perform it and a minute list of its requirements is given at the very beginning which we quote in the appendix and which includes 17 of many things such as 17 elephants and 17 slave-girls. The usual (प्रसिद्ध) दीक्षां ट्रांक्स जब-याहरस पुरस्तादाबाहर पीर्णमास्ये. This is the same nearly as in Apastamba and shows that the rains commenced about Ashāḍhī Paurnimā, leading to the same date as the earliest possible one for this Sūtra also.

Besides Soma, Surā is also prescribed, which is more than what Apastamba does. But there is the same martial race of chariots as if for fight and the same beating of drums. When the sacrificer returns, the chariots are unhorsed with mantras and after offering Soma to the gods, especially Indra the god of fight, they all drink (or eat) the Soma, which perhaps gives the name to this sacrifice for fighters, viz. बाजपेय (the drink of strength). At the end we have संतिष्ठते बाजपेय:, as in Apastamba.

Praśna 12 describes the Rājasūya in a greatly different manner from Apastamba. It is not stated in the beginning that only a king can perform it; but this goes. without saying. Various sacrifices are performed for a year. The king then goes to the house of (1) a Brahmin, (2) a Kshatriya, (3) a Vaiśya, (4) the Mahishī (chief queen,) (5) the Vāvātā queen, (6) the Parivriktī queen, (7) the Commander-in-chief, (8) the Suta (chariot-driver), (9) the Grāmanī, (10) a Kshattri, (11) a Bhāgadugha and (12) an Akshāvāpa (dice-player). Here we again miss the Pālāgalī queen. These are important associates of the king and are in the beginning called Ratnas or jewels. When, the Abhisheka or chief ceremony of crowning begins, the Soma sacrifice in its three Savanas is first gone through with its attendant animal sacrifices. After-Abhisheka, the declaration is made एप वो मरता राजा and Kuru-Panchalas are not mentioned here as in other Sutras. The word Bharata is the oldest word for Indo-Aryans. The king is then given a bow and arrows and putting on shoes made of boar-leather, he rides a Many ceremonies, not mentioned in other chariot. Sūtras, follow including a game at dice. Finally, the Hotri relates the story of S'unahsepa as prescribed in all Brahmanas in this connection. Many subsidiary sacrifices, not mentioned in other Sütras, have to be performed and the Rājasūya ends after seventeen months and a half. Other kings are informed by sending them some sacrificial offerings and those who refuse them are counted enemies. A বিভিন্তৰ is not mentioned as preceding the Rājasūya. But this explains why a বিভিন্তৰ was necessary for Yudhishṭhira before his Rājasūya.

Prasna 13 describes Kāmyeshţis, i. e. sacrifices with particular desires such as সনা, সন, पशु, সন্ধাননি, সাম, মুনি, বীথ, সায়ু: &c., with special mantras in each case addressed to Agni, Indra or others. There are a few magical rites (সমিনার হৃষ্টিs) one of them being for killing the men and cows of an enemy (4), another for turing consumption (28). Abhichāra rites, however, are much fewer in this Sūtra than in Āpastamba. But there is one for inflicting leprosy (রুম্মা) or escaping from it (18). In these Ishţis different kinds of milk or grain oblations are prescribed but not any flesh offerings. Thus in the Kārīrī Ishţi (38), prescribed for bringing rain, the oblations are of ক্যেবার and everything is black such as the sacrificer's clothes, the horse in attendance &c.

Praśna 14, which begins with the statement that Prajāpati first created serpents and then birds, is entirely of the nature of a Brāhmaṇa, discussing the philosophy of ceremonies. (Where the words इति बाह्यणं occur they do not refer to any previous Brāhmaṇa statement but simply mean, we think, "this is the explanation".)

The caste or order सोधन्त्रन is mentioned in 5. A story is told that Manu dividing his property among his sons gave nothing to Nābhānedishṭa, who complained and was given a share in the sacrificial oblations of Angirasas. What is किहिटा (18)? इति बोधायन:... इत्यान्जीगिव:, quoted as conflicting authorities (15), show that the Sūtra belongs to the Baudhāyana school only. In 17 and 18 sacrifices are prescribed for the purposes of a Rāshṭra by the Bāshtrabhrits and also against its enemies in war. In

20 a story is told how Vasistha, alone of all Rishis, actually saw Indra, who being pleased gave him Stomabhāgas and it is hence that a Vāsistha should be elected Brahman. In the latter part are given certain rites for সায়ন্তিব against mishaps in Agnihotra or other higher sacrifices indicating that the Prāyaśchitta Sūtra, Praśna 29, is a later addition. In this we come across the remedy for the mishap in which Soma, bought or unbought, is stolen. It is that a certain ক্ষেত্ৰৰ grass called সাহায় and described as Haimavata (growing in Himālayas) should be used; if that was not available, Parṇatsaru (ম্পিন্ত) leaves' sap (সাম্বিত্ৰ) should be used. These substitutes are older ones not known to the other Sūtras.

In Prasna 16 is detailed Dyādašāha which is the basis of year-long sacrifices. We find here a mention of -75 of the Rigvedins. The discussions (Mīmamsās) given, e.g. whether पुछ should be ऐंद्राम or वायवीय or solely आहेय or ऐन्द्र, are of the nature of Brahmanas and are cut of place in a Sūtra which has to give definite rules without discussions. Year-long sacrifices like नवामयन are indicated. These are to begin four days before माघी प्रणिमा or फाल्मुनी or चैत्री (13) and the reasons are given for these beginnings which are astronomically important. We merely notice that if माघी पणिमा is the beginning of the year, this Uttaravana would be about a thousand years before that of the Vedanga Jyotisha. In explaining गर्गितरात्र a story is told of रोहिणयः क्रोधानः कोलाक्षा वास्कः sacrificing and मशको गार्य आरुणेरन्तेबासी explaining to him a rite. Here यास्क is only a gotra name and not the author of the Nirukta. The Sārasvata sacrifice is mentioned briefly with some difference and ending with the usual उत्थान at प्लाक्ष प्रस्तवण. Various sacrifices beginning with Pancharatra and going up to Saptadasaratra and Ashtādaśarātra and so on to 36 nights are described with permutations and combination of rites. It is interesting to note that the sacrifice named Paundarika is described here. In the MBh., it is mentioned that Duryodhana performed this sacrifice after the exile of the Pāṇḍavas, as he could not perform the Rājasūya performed by them. It is described as एकादशरात्रोऽ युत्तदक्षिणोऽश्रसहस्रदक्षिणः. This is one of the few places in this Sūtra where exhorbitant Dakshinā is prescribed, naturally as the sacrifice is performed by great kings.

Praśna 17 describes অবিয়ন্ত in the first ten Kandikāsand one may form an idea as to how sacrificial procedure is varied in different forms. Atiratra is a form of बोडिशन in which there is an अरुणपशक horse, औदंबर षोडशिपात, चतःस्रक्ति &c. and Soma is to be bought with a Rohini पित्रहा एकहायनी cow and so on: these differences continue in the actual performance. There is a sacrifice for killing an enemy (13) and by it he dies immediately: (ताजक प्रमीयते). We may note मनसेव यं द्वेष्टि तसुपाकरोति यद्य वै न द्वेष्टि आखुस्ते पशुरित्यनुदिशति (14) as in Ap. Sarpasatra is mentioned (18) as performed by serpent kings and a king's sons named जर्बर &c. (the names finally include अरिमेजय and जनमेजय) in Khandavaprastha for obtaining poison (विष) which they obtained. "Those who perform this Sattra do not kill serpents." We have already said that the Mahābhārata story of Janamejaya's Sarpasatra is a distortion of this imaginary Sattra. The last sentence and the name खांडवप्रस्थ is in addition to what we read in Ap. After this is explained कुण्डपायिनां सत्र (with mention of कुण्डा: -21), then उत्सर्गिणामयनम् (22), then तपश्चितामयनम् (23), then छन्दश्चित, रथेनचित, कह्मचित &c. (24-30), - all imaginary sacrifices probably. Sautrāmanī is then described and a list of things required is given first. Both Sura and Soma are to be purchased and offered to Sutraman (Indra) whose name is given tothe sacrifice. The Sura is to be purified through the hair of a lion with suitable mantras, then of a tigerand then of a wolf (30-38). Then comes as usual संतिष्ठते सौत्रामणि:.

In 39-42 Samāvartana is described which is a Grihya rite and is out of place here. The new Anushtup mantras prescribed show this to be a later addition as stated by Caland in his preface to Vol. II. Very probably it precedes the Grihyasūtra as it seems certain that at the time of this addition, there was no idea that a Grihvasūtra would be formulated. The rest of this chapter is also a later addition as we come across the line असिश्रहे: प्रतुदन्ति यमस्य प्रतिषादने (44), an idea not to be found in Vedic literature. The name of Baudhavana is as bad for interpolations as of the Puranas, especially Skanda Purāna. Several sacrifices by name यज्ञ are mentioned here as चतुश्रक्षम् , this use of the word being unusual. Then finally are described (55-62) चातर्मास्य सोमा: such as वरुणप्रचास सोम, ज्ञुनासीरीय सोम, साकमेध सोम &c. with their different animal sacrifices.

Prasna 18 begins with Brihaspatisava. Among the many requirements for it, the Hotri should be परिस्रजी which means ভুন্তার (bald) as the Sūtra itself explains. He should also be मिर्मिर, which is explained as गुह्रा विद्विध-स्तिलकवान पिकाक्षः and also त्रिश्चक or त्रिवेद. This is a strange provision not found elsewhere. The सब procedure includes a sacrifice to बृहस्पति. माध्यंदिन एव सबनेऽश्वं दद्यादिति This बृहस्पतिसव is both for Brahmins and Kshatrivas and is higher than राजस्य. We have next a स्थपतिसव for स्थपति or leader, a सूतसव for सूत्रप्रामणी, a सोमसव, a प्रश्निसव and a गोसव which has, however, nothing to dowith नो but the दक्षिण is अयुत in it. There is next mentioned ओदनसन in which all the four Varnas are invited and a Brahmin is given सच in a golden pot. a Kshatriya HT in a silver pot, a Vaishya milk in a pot of bell-metal. and a S'udra water in an earthen pot. This is open to a ब्राह्मण, क्षत्रिय or बेर्य. Next is mentioned प्रकारदीय. a.

sacrifice for five years wherein eleven Vatsataris are sacrificed each year (11).

We have a story told of a sacrifice by ज्ञतुपर्ग माङ्गाश्चन king of S'aphalas (13). This sacrifice is to be performed by one who incurs impurity by going into border lands viz आरह, गान्धार, संबिर, करकर and कड़िज्ञ. Thus at the time of this Sūtra, the Panjab, the lands beyond the Indus, Sauvīra (Ophyr, south of Sind). Eastern Bengal and Orissa were out of the list of Aryan countries. Aptoryāma is described (15) with its many Sāmans required by Chhandogas and the name is well explained also. A मृत्युसन is next described (16) a new name, whereby a king becomes unassailable in his kingdom. Like Rājasūya it is a national sacrifice and resembles it in most respects.

Sadyaskrī and Prāyaṇīya sacrifices being described (20, 21), we have next Vrātyastoma detailed (24-27). The particulars given here are very important and it is mentioned that among the Pāñchālas, गम्धर्वायण, वालेय and आभिवेद्य were Vrātyas. After describing यमकत्, the Sūtra gives (35) some particulars about Abhichāra (magic) rites.

We have hereafter stories related in the fashion of Brāhmaṇas and Purāṇas (38 to 51) one of which states that Purūravas had two sons by Urvasī, Ayu and Amāvasū, and that Ayu went eastwards and founded Kuru-Pānchāla and Kāshī-Videha nations, while Amāvasu went westwrds and founded गान्धार्यः, स्पश्चः and आरहाः (44). This is different from the account in Purāṇas. We have in 42 numbers mentioned up to the highest, viz. यत, सहस्र, अयुत, अर्बुद, न्यबुद, समुद्र, सम्ब, अन्त and पराई, names still used in modern times. In (43) we have two other words यह and परव. The author speaks familiarly of Kurukshetra and says "इन्होंने बिसनत्यों नाम पुरुद्धियः" and "एते जीशनसा नाम इन्होंने परितः" (46, 47). The well-known

mantra यन्तु नदयो वर्षन्तु पर्जन्याः is found in this Prasna.

The Sāvitrachayana described in Praśna 19 requires 8500 bricks of gold (पंचार्शातिशतं (इरण्येष्ट्याः 2). This is the total of the bricks to be laid for the 15 days of the first fortnight and 15 of the other, 15 nights of the same, 15 Muhūrtas of each day and night and 15 subdivisions of each Muhūrta, 12 first fortnights of the year and 12 second fortnights, 13 months and 4 Sañvatsaras as prescribed in T. B. We could not arrive at the exact total 8500 from these; but the total does come up to about this number, when the different days, nights, Muhūrtas, fortnights &c. are added up.

Coming to the contents of Vol. III, Praśnas 20 to 23 are called ইমন্ত্ৰ as stated already, because they simply record differences of ritual according to Baudhāyana and other teachers like মান্ত্ৰীই (This is a new name in sacrificial literature). The Kaṇḍikās or paras state the procedure as laid down by Baudhāyana and that by others. This clearly shows that these praśnas were added after the preceding work was ready. Indeed the subjects are taken up in the order of the previous praśnas, Agnyādhāna, Darśapūrṇamāsa &c.

Then follow Praśnas 24, 25 and 26 which are called Karmānta sūtras. These contain general discussions as to the propriety of the procedure laid down in the same previous 19 praśnas and in the same order. Differences of opinion among teachers are also noticed, especially between Baudhāyana and S'ālīki.

Prasna 27 is called সাধ্যাবন্দ and gives Prayaschittas for various mishaps. This is a very modern addition from its language and its quoting अनुष्य verses, of others probably, the expression आचार्या मुनते। तन्नोदाहरन्ति (11), followed by Anushtup ślokas, is clearly an evidence of subsequent addition. The chapter gives Prayaschittas only in regard to Agnihotra mishaps (अनामात also).

It was probably added after other Sūtras were formulated, giving Prāyaśchittas separately. Several new mantras are prescribed for Ahutis suitable to the Prāyaśchittas.

Praśna 28 gives some higher Ishtis as also Prāyaśchittas for the higher sacrifices. It first gives মहাपत्रित्रेष्टि by one who is struck with consumption or is cursed by a Brahmin, a cow or Pitris. Another purifies ज्ञातीन् जाल्यन्तरे वर्तमानान्द्र-कृतेरपद्धान् द्यपूर्यान्द्यापरानात्मनेकविश्म, which shows the solidification of castes at this time. Then follows নহার্থি which begins with Krittikās and thus shows that this section precedes the first century B. C. when the Aśvinī enumeration came into force. Then follows Prāyaśchittas for mishaps in an animal sacrifice such as the selected animal dying before being sacrificed. It is important to note that in the case of না or হাম, a goat or sheep is allowed to be substituted.

In Praśna 29 we have further rites given of the nature of Prāyaśchittas for other kinds of mishaps which must have happened at all kinds of sacrifices. These include burning of the sacrificial shed, breaking of sacrificial pots and even राष्ट्रविश्रम and च्याचि. These sections appear late as there are Anushtup ślokas of modern type. And there is in the first section mention of Vādhūlaka whose Sūtra we possess. This Sūtra has not yet mentioned any known Sūtrakāra, though it mentions many teachers. In the end, other views are cited by इत्येक but सर्वानित्याचायो: at the end refers to Baudhāyana and shows clearly that this section has been added by a follower of his.

Praśna 30 called S'ulvasūtra describes the construction of altars and also sacrificial sheds. It commences with the table of measurements as follows:—14 Anus or sesamum (নিত) seeds make one Angula; 10 Angulas form one সুৰুদ্ধ and 12 form one সুৰুদ্ধ (span); two padas

form one সক্ষন (step) and two spans one Aratni (hand or cubit). The building of altars in the form of ইয়ন (eagle), ক্য (swan), খেলুক with its navel and spokes, or কুন (tortoise) is the most difficult part of the subject and bricks had to be prescribed of a particular size. Their number was fixed in each case and sometimes the number was made up by half bricks (अधिकाभि: संस्था प्रयेत्). The subject involved a knowledge of mensuration. The chapter is evidently a late addition; but S'rauta altars only are treated of and this Sūtra seems to be the earliest of the S'ulvasūtras.

III Katyayana.

This Sūtra belongs to the White Yajurveda and is the only Sutra we possess of that Veda. Its Grihyasūtra is written by Pāraskara and not Kātyāyana, though in the Black Yajurveda and the Rigveda, the Grihya and S'rauta Sūtras go under the same name. This Sutra has been published by Weber together with its commentaries. It was published in Berlin in 1859, which shows how German scholars since long have laboured in the field of Vedic literature. The well-known Bhāshva of Karkāchārva has not, we fear, yet been published; but in the commentary of Yājñikadeva, published by Weber, many extracts are taken from Karka's Bhāshya. Two other commentators, viz. Mahādeva and Mahidhara, are also mentioned. Weber in the preface to his edition mentions two Bhāshyas, one by Upādhyāya Karka, fragments of which only exist in European libraries and another, very verbose, by Ananta who boasts of having performed many different sacrifices. Of commentaries, he first mentions the excellent Vyakhya of Yājñikadeva of which many copies exist. There is a paddhati also of this author which gives the ritual in ex-

tenso as prescribed by the Satra for each sacrifice without referring to it. The next commentary mentioned is the Bhashya of Mahadeva. The last and not the least is the Vedadīpa of Mahīdhara who lived in Samvat 1654. The Sūtra of Kātyāyana is divided into 26 chapters called Adhyāyas which are subdivided into Kandikas containing about 10 to 15 sūtras. The sūtras are generally very brief. The idea that sutras ought to be short seems to have been accepted at the time of Katyayana. The sūtras are again often in the form of the Indian syllogism typified in the sentence प्रवेता वन्हिमान धमव-रवात. Indeed some sutras contain one noun in the ablative only giving the hetu. This shows that logic had also advanced by this time. These two facts lead to the inference that this Sūtra is a very late one. Further. this Sūtra is solely devoted to sacrificial procedure as laid down by the S'atpatha Brāhmana. The procedure in the ritual of other Vedas is never noticed as in Apastamba Sūtra which frequently notices the Bahvricha and the Vajasaneyaka ritual. Indeed no other authority is mentioned except Jātūkarnya and Vātsva in a few places. Optional procedure is provided for by इत्येके or एकेषाम, these differing savants being most probably followers of the same White Yajurveda.

The contents of this Sūtra are similar to those of other S'rauta Sūtras and relate to the S'rauta secrifices beginning with Darśapūrnamāsa. The commentator-everywhere shows, at the beginning of each Adhyāya, how the Sūtra follows the order of the S'atapatha. The commentary explains sūtras in the first twenty chapters and is full in the first twelve. The subsequent chapters relate to highest sacrifices like Aśvamedha rarely performed in post-Vedic days and had no interest whatever for modern writers.

The exact date of this Sutra can not be determined.

It is treated as Pre-Pāṇinian by all scholars and if we take 800. B.C. as the date of Pāṇini, this Sūtra may be placed about 1000 B.C. It is pre-Buddhistic certainly as it shows the highest development of sacrifice which took place before Buddha in whose time the absurdity of the cult of animal sacrifices became nauseous to the people and made it necessary for a Buddha or a Mahāvīra to raise the standard of revolt. Hence also we feel assured that Kātyāyana must have long preceded Buddha. There are no specific indications, however, in this Sūtra as to its age, so far as we have scanned it.

The following interesting facts may be culled from The first Adhyaya relates to general procedure and speaks of Adhāna and Chāturmāsva. difficulty of explaining how a Rathakara is specially mentioned in the Brāhmanas is experienced here also. Whether the word indicates a special mixed caste or a special profession only, practised by any of the three Varnas is answered here differently. Probably mixed castes, based on different avocations like the original three Varnas, had arisen by this time, as further on Ribhus or Saudhanvas are referred to in IV 9, 5. The original provision in the Brāhmanas was in our opinion due to the fact that a Rathakāra who had to work for his profession in jungles during the dry season, cutting trees &c. was allowed to make Adhana in the rainy The further sutra निषादस्थseason when he was free. पतिगेविधुकेऽधिकृतः (I 1, 2), which entitles a Nishāda and a Sthapati for ग्वियुक ritual, indicates that Kātyāyana meant by Rathakāra, a S'ūdra or a mixed-caste person of that profession. (2) The distinction between यजित and जुहोति or यज्ञ and होम is clearly laid down in two sutras तिष्ठद्धोमा वषट्कारप्रदाना याज्यानुवाक्यवन्तो यजतयः । उपिबष्ट-होमा स्वाहाकारप्रदाना जुहोतय: । (I 2, 6 & 7). Yajati is used when the oblation is to be made standing with the word वष्ट् and with the Yājyā and Anuvākyā mantras; while Juhoti is used when the oblation is made sitting with the word Svāhā (3). The year began on the next day of Phālguna Pūrņamāsī.

The second chapter relates to द्रीपूर्णमास and lays down the procedure in nearly the same manner as in other It may be noted that हवणी is the form used in Tandula (বৃত্তুন্ত) is clearly grain sepathis Sūtra also. rated from the husk, the process of separating the grain being done by the sacrificer with special mantras. The word applies to बीहि or rice as also to other grains such as इयामाक. The pounding of grain is mentioned and not grinding, we think, as perhaps grinding was not yet known or in sacrifice the oldest rudimentary process was still retained because considered sacred. as the creating of fire by churning one piece of wood in another. Match boxes are no doubt modern, but the method of percussion which is common even among Bhils is not used because of the same reverence for the oldest method. The पत्नी pounds and not a S'ūdrī. election of Brahman follows that of Adhvaryu and every thing proceeds in a solemn manner, the motions to and by the Adhvaryu, the Brahman and the Yajamana (sacrificer) being, as in a modern legislative Council. (e. g. बहानपः प्रणेष्यामि &c.), solemnly made.

Chapter III continues the same subjects. A special ritual or act is prescribed nearly everywhere to destroy the sacrificer's enemy. The sutra असावे द्विपन्तं आतृत्यम् is however queer; if there is no enemy, the hating cousin should be destroyed. आतृत्य in Vedic days, we have elsewhere shown, meant the Zends or the Asuras. But in Kātyāyana's days they were unknown in India. Probably the undivided family systeem always gave rise to these enmities between cousins.

At the beginning of IV, the commentator observes:

' Having described the पौर्णमास, the Sūtrakāra treating of दर्श first describes the पिण्डपित्यज्ञ ' or sacrifice to the manes with balls of rice. The usual Sraddha ceremony is here described. The sutra प्रकरणकाललिक्कानुग्रहवचनानाहितामि-श्रतिम्योऽनङ्गम् (IV 1, 29) shows the great advance the Pūrva Mimāmsa method of interpreting the S'ruti procedure had made by the time of Katyayana. The Darśa procedure begins with the formal milking of the cow: नाग्यता दोहयसञ्जूदेण (IV 2, 22) shows that orthodoxy had increased and a S'udra is finally prohibited from milking a cow for sacrifice. अनुवाद: प्रवेस्येति वात्स्यवादरी (IV 3, 18) mentions two authorities वात्स्य and बादरि: the latter can not be the बादिर of the Badarayana Vedanta S'ūtra who lived nearly a thousand years hereafter. These are gotra-names only; and Bādari is the gotra progenitor probably of Bādarāyanas. वाजिन is the word for the liquid that remains after the substance is taken out of milk or curds. The Dakshina prescribed here is पन: संस्कृतो रथो (दक्षिणा); it is strange that a new chariot is prescribed elsewhere and here an old one repaired and repainted. The Nakshatras prescribed for अमयायान are the same as in Apastamba and the season for बेस्य and स्थकार is वर्षा. The Nakshatra for पुनराधान is पुनरेस्वाः only (IV 11, 5). Agnihotra is hereafter described in detail and different oblations are provided for different desires (प्यसा स्वर्गकामः पशुकामो वा । यवाग्वा प्रामकामः । तण्डुलैबिलकामः । दध्नेन्द्रियकामः। घृतेन तेजस्काम:। (IV 15, 21 to 26).

Chapter VII takes up and describes higher sacrifices begining with अभिष्टाम. For them sixteen priests are elected, their names being as in Apastamba; if not possible, four leading ones only. They go out and select a spot for performing sacrifice called hence देवपूजन on high ground and a S'ālā is erected with vacant space on all sides except the east where the entrance is. The sacrificer together with his wife enters on the दीक्षा with great

ceremony, commencing with the cutting of his nails. For scratchig if necessary, a horn is tied to his cloth and is to be used and not his nails VII 3,36. (नापित is here mentioned in this Sūtra) They enter the S'ālā and live an ascetic life subsisting on milk only. शृदसंप्रवेशसंभाषा-भ्यत्थान (VII 5, 5) are proscribed as in Apastamba; but a Sudra's not entering the S'ālā is an advance upon it. With regard to Soma, the same detailed provisions for its purchase from a Kutsa Brahmin or a S'ūdra (though before in a sūtra we have the Soma bought from somewhere else) are given. In the process of purchase higgling for price is also prescribed, the purchaser commencing with offering and (1/16 of the price of a cow-com. VII 8, 6) and ending with gold. But subsequently the gold is taken back from him and a cow given; if it is not taken, the seller is driven away with belabouring with sticks. Some treated as king is placed on an Asandī in the sacrificial pavilion and a reception ceremony is performed. After many more ceremonies including a sacrifice of eleven animals, the actual sutyā is performed the next morning.

Chapter IX describes this ceremony of extracting the Soma juice. The herb is to be ceremoniously pounded eight times or twelve times (IX 4, 17), a part is offered to the fire and four priests again press out the juice thrice (IX5, 1). The Soma juice taken in the results is called sukra (19). There are three savanas, morning, noon and evening, for which different mantras are prescribed in certain ceremonies. Saman songs in praise of Soma are recited as the juice is poured into the Kalasas (IX 7,4). The last ceremony of offering oblations requires election of priests of good family with different mantras for Hotri, Adhvaryu, Brahman &c. and a Rajaputra is elected to protect the ceremony. The names are and the in 10, 5, are old as they occur in V.S. (7, 12 and 17).

After oblations the priests eat the residue (इति: श्रेष).

In Chapter X are given special rites of the noon Savana. Probably the same material is again pounded and juice extracted. It is used with curds; the residue after oblation-offering is eaten by all. The priests अदीक्षित might have a smell of it which is called प्राणसञ्ज as distinct from actual मझ. Dakshinā is hereafter given to priests. Afts अमीत्र is paid, a dakshinā is to be given to a Atrigotra Brahmin after calling out for him; हालेय,वालेय. कौद्रेय. शौभेय. वामरथ्य and गौपवन are to be excluded; why it does not appear (2). Other Brahmins who have come in should also be given something except कण्य, कर्यप and याचमान. The two exceptions are also a riddle but the third shows Brahmin beggars rushing in for Dakshina even at that time as now and the sutra rightly orders that such Brahmins should never be given Dakshinas (X,2,35). Kanva is interpreted as Kāna (squint) and Kasyapa as इयावदन्त (black-toothed). पत्नी च ददाति makes it necessary that the wife should particitate in the act of giving, thus recognising her equal position. The third Savana for the evening is next described with the special procedure for Soma is mixed with curds when pressed again. After the ceremony is finished, they go out for Avabhritha to any pond; if such water is not available, to any unsteady water (stream) and then return to the यहाला. After giving दक्षिण: and सायमाहति, this sacrifice ends and the sacrificer leaving the यज्ञशाला returns home. This अभि-होस is the first necessary sacrifice for the higher ones उन्ध्य, षोडशिन, वाजपेय, अतिराम्न, अप्तोर्याम &c. For Vaisyas and Rājanyas some difference in procedure is here mentioned, though generally the ceremony is the same for all.

Chapter XI then details the duties of the Brahman (সহবে) in these sacrifices. It also describes the Dvādaśāha. a sacrifice which is the model for Sattra and Ahīna which are অব্যাধ্য (XII 1, 8) with বায়া and ব্ৰথিয়াই.

shadahas to be followed by उन्थ्य, इन्दोसा, सोसक्रय, शालाप्रवेश &c. as usual.

In Chapter XII we have all higher sacrifices mentioned and briefly described by the nature of ग्वामयन, the model of sacrifices lasting for one year. These are आदित्यानामयन with different sacrifices for each of the 12 months; 2 आंगिरसानामयन, 3 हतिवातावतारयन, 4 कुण्डपाय-नामयन with many ordinary sacrifices during the 12 months, and 5 सर्पाणामयन. Then we have sacrifices described lasting for more than one year, probably imaginary, such as तापश्चित for 3 or 12 years with गवामयन for the first year and others for the next, sising for 12 years, शाक्त्य for 36 years (शाक्त्य means probably son of शक्ति son of Vasishtha) and the 1000 years' sacrifice of Visvasrij (Creator). Finally, we have Sārasvata sacrifices described. On the left bank of the Sarasvatī, the first दीक्षा should be taken at उदकान्त (विनशन where the waters of the river disappear in sands). Then on the right bank following up the river every day by शम्यात्रास, Prāyanīyas were performed. There are three forms of the same further described viz. भित्रावरणयोग्यन. कण्डपायिनामयन, and इन्द्राग्न्योरयन. In all these they finished at फाझ प्रस्वण; and performed अवसूथ at कारपचव on the Yamunā. This explains the importance of the Sarasvatī as a sacrificial river. The vows of the sacrificer are all given in brief, such as abstaining from अनार्थ-भाषण, अनृत, कोध, वृक्षारोहण (नावा वा), अमिवादन and नृत्यगीतवादित. His food sould be chiefly milk. The animal sacrificed is divided among the priests and the sacrificer as minutely discribed. What the पत्नी gets she is to give to a Brahmin. The वैकर्त is distinguished from the समित who if not a. Brahmin should give his share to any Brahmin. parts 36 in number "bear up the sacrifice". This description of the division would not seem strange to any European family, wherein the division of cooked wholeanimals constantly takes place; but in India of the present day animal sacrifice having almost disappeared, the description strikes one as revolting. In Kātyāyana's time some sentiment against obstinate division had set in. For in the next sūtra (XII 2) he says that if a wrong division is made, as the Selagas (mentioned in Aitareya Āranyaka as an aboriginal tribe) do, they would incur sin. This method of division was first known by Rishi Devabhāga; but he did not tell it to any body. It came to Bābhravya through a heavenly being much as an angel told Paul to have no scruples in eating animals.

This chapter finally gives the Pravaras necessary to be remembered in choosing priests for sacrifices. They are given last in Apastamba and other Sūtras.

Chapter XIII treats of Gavāmayana in detail, the दीक्षा

being on एकाष्टका (माच कृष्णाष्टमी) or फाल्गुनी पूर्णमा or चैत्री or four days before any पूर्णमासी, especially माघी. Here श्रुते: refers to Tāṇḍya Brāhmana (quoted by Weber). After several sacrifices mentioned, in the sixth month Agnishtoma is performed and a singular ceremony follows in which the sacrificer is praised and censured alternately: अभिगरापगरी आक्रोशस्येकः प्रशंसस्यपरः (XIII 5, 45); पुंश्रुलीक्याचारिणावन्योन्यमाक्रोशतः (6); श्रूदायौ परिमण्डले चर्मणी व्यायच्छेते (7). जयस्यायः (8) may be marked, as also गोधावीणाका; काण्डवीणाः पन्त्यो वादयन्त्युपगायन्ति. Cows are praised; न वे गावो मन्दारस्य गङ्गाया उदकं पपुः। पपुः सरस्वतीं नदीं ताः प्राच्य उज्जिगाहीर इदं मधु &c. is not commented on and is inexplicable. Perhaps the Panjab and Kurukshetra are praised here as having best cows and the latter as the most sacred land. Slave-girls (दासी) with pots on their heads walk round the fires

detailed and then Avabhriths is gone through. Finally ten cows for each Brahmin are prescribed, and more if

the sacrificer can afford it, as Dakshina.

If sacrifice ends before the year, procedure is

Chapter XIV describes the next higher sacrifice, viz. Vājapaya, which is for Brahmins and Kshatriyas (वाजपेयः शरद्यवैश्यस्य XIV 1, 1). There are seventeen Dīkshās and seventeen pieces of cloth are tied round the एकधन प्रवेशनकाले सरा नेष्टा परेण प्रवेश्य खर करोति (XIV'1, 26) and सोमप्रहाः and सुरायहाः अनुक्रमेण (XIV 2, 6), अतिरात्र-पश्तुपाकृत्य वशां पृश्चि मरुभ्य उज्जेषेभ्यः and सप्तदश स्यामतूपरान् बस्तान् show that वाजपेय includes offering of liquor and many animal sacrifices. सप्तदश सप्तदश शतानि ददाति गोवस्त्राजावीनाम is as usual. सप्तदश वृषस्यो निष्ककण्ठयः is the first provision one comes across about slave girls, these with golden ornaments (Nishkas being equal to 4 Suvarna coins) could not be merely for service; and seventeen chariots drawn by elephants are also given. After this, horses are voked to chariots and they go out for a fight or race and on return the final Vajapeya ceremony takes place, the name of the Samrat being loudly proclaimed.

Chapter XV speaks of Rajasuya, performed by a Rāja who has not performed Vājapeya (अनिष्टिनो वाजपेयेन माघीपक्षयजनीय दीक्षा (5) prescribes दीक्षा on फाल्युन श्रतिपदा and shows that months were Amanta following Vedanga Jyotisha. The same king's followers are mentioned as elsewhere (सेनानी, पुरोहित, महिषी, सूत, प्रामणी, क्षत्र, संप्रहीत, and मागद्रघ (मोर्जायता), अक्षावाप and गोविकर्त (XV, 3, 12). After various animal sacrifices on the फाल्न्नपक्ष यजनीय day (Chaitra I) the Abhisheka takes place. The Hotri is to be a मार्गवगोत्रिन्. यस्याश्च जाते राजा मवति देशस्यानवस्थि-तत्वात (XVI, 4, 17) shows that the old कुरुपांचालानां राजा formula is gone. The word जाति is also important and also देश. The king puts on a शीम cloth or त्रियाणं जृतोणं; यज्ञरूपस्यृतं पापाण्डु (कम्बळं तार्ष्यस्योपरि निवस्ते com.) and उष्णीव describe the apparel of kings in those days. The king takes up a bow; and seated on a tiger-skin is sprinkled with holy waters with suitable mantras. After certain other ceremonies including the king's son and brother

&c. is prescribed the throwing of dice in gambling. This explains how there was gambling after the Rājasūya of Yudhishṭhira. It was a usual game with Kshatriyas as with the ancient Germans. Different sacrifices of various kinds of animals are prescribed thereafter every month, ending with Sautrāmaṇī or some other higher sacrifice.

Chapter XVI describes Agni, Ukhā and Chayana and other minor matters. पंचारितः, पुरुषो, दशपदो, द्वादशागुंळं पदं, प्रक्रमित्रिदः समित्रमक्तस्य (XVI, 8, 21) gives the current measures. The measure of sacrificial ropes is also given as also the number of bricks, यथाग्नि वेदीष्टकाप्रमान्णम् (XV 6, 26) and जंघामात्रीं नामिमात्रीं मुखमात्रीं सक्त्यां मिनोति gives the measures of the depth of the fire-pit.

Chapter XVII relates chiefly to Chiti and prescribes mantras with which bricks are to be laid.

Chapter XVIII first speaks of a शत्रहिय sacrifice which is a new one in S'rauta literature and shows that this Sūtra is probably the latest. (शत्रहियहोम उत्तरक्षस्यापरस्यां सक्त्याम् । परिश्रिस्वर्ककाष्ठेन शात्यस्यततं जर्तिरूमि-आन्नविधुकान्सक्तनजाक्षीरमेके। तिष्ठसुदक् नमस्त इत्यध्यायेन I, II). वसाधारा is hereafter prescribed and then Vājapeya. In the last Kaṇḍikā, the Vratas given are: पक्ष्यभोजी, सवणोपायी (com. explains that the Sūdrī wife should be avoided as also द्वितीय, the Kehatriya and Vaisya wives); तृतीय न काचन; in the third chayana thus perfect celibacy is ordained: यावजीवमविशेषात्सवत्यरं वा.

The next chapter XIX describes the सोत्रामणी which in this Sūtra is allowed to Brahmins only; but a king dispossessed might perform it (राज्ञोऽबद्दस्य 1, 3). After an ऐन् animal sacrifice, सुरा and सोम are both to be purchased from a होब. यवकर्षन्धू वर्णीन बलमसीति आवपति (2, 20). कर्षन्यू com. explains as स्वममतिमधुरमुत्तरापचे वायते. Milk is also to be mixed and hair of हक, ब्यान and खिंद् put in as in Apastamba (2, 23). The sacrificer and the priests

drink the हवि:शेष; but an alternative is allowed, viz. प्राणमञ्ज or smelling (3, 15). वसिष्ठशुनकानां नाराशंस: अलीणां चैके (6, 8). A sāman is sung at the end with a different Nidhana for Kshatriyas and Vaisyas (5, 5). Various details are given finally of प्रयाज and अनुयाज.

Chapter XX describes the Asvamedha, following the order in S'atapatha which the com. points out. It is to commence on Phalguna S'uddha 8 or 9, i. e. a shadaha before Pūrnamāsī. The queens put on different ornaments and take part. They are महिषी, वावाता, परिवृक्ता and पालागली. The com. describes the last as द्तपनी (St. Petersberg Dictionary gives ঘাতাগত as meaning বুৱ from S'. XIII 4, 1, 8 and 5, 2, 8) and the second as the favourite and the third as the detested consort. Apastamba mentions the first three and not the fourth but that she is an ancient entity is proved from S'atapatha XIII 4, 11, 3. The queens are accompanied by one hundred daughters of kings, of Kshatriyas, of Sütagrāmanis and of Kshatra-Samgrahitris. The marks and colours of the horse to be selected are given in detail which are interesting to students of মাতিৱাৰ (horse-study). The rite in Apastamba of killing a dog by an आयोगन or प्रश्च is mentioned here also. The horse starts on its ramble with guards mentioned already. They can take the wealth of Brahmins who do not know Asvamedha ritual; but they are to stay with Rathakaras. The former provision is given even in S'atapatha VII 4, 2, 17. After the horse's return within a year, the chief sacrifice takes place on फाल्पनी पौर्णिमा. There is दीक्षा and देवयजन and certain animal sacrifices. The three queens then decorate the horse, the fourth not being mentioned here (5-15). It is then taken out to drink water at a pond. When brought back, it is killed. हिरण्यवासी अव-बासेध्यश्वसंज्ञपनम् shows that it was strangled or suffoce-

ted to death like other animals sacrificed. The usual obscene rite follows and it is accompanied here as elsewhere with obscene jests among priests; but it is remarkable that servants (अनुच्री) are allowed to be substituted for the queens in this Sutra, evidencing its improved ritual, though later date. The threequeens then show the way for cutting the dead body with a sword, by marking lines on it with needles of gold, silver and copper respectively. After the Vapa (entrails) of the horse sacrificed is thrown as oblation into the fire together with those of the other animals killed and after several subsidiary oblations, the Avabhritha takes place. When the sacrificer comes out, others take their bath in the water and they become purified of their sins without प्रायश्वित (अचरित्वा वतानि अश्वमधपुतास्ते । 8, 18). उदवसानीयान्ते भार्या ददाति सानुचराः । कुमारी पालागली वाध्वर्यवे । is remarkable; but we find in stories that after Asyamedha, girls were bestowed on the chief priests (e. g. S'āntā was bestowed on Rishyaśringa) and S'atapatha XIII 4, 5, 37 is referred to here by the com. (The following quotation from S'atapatha V, 3, 1, 11 using the word पालागल meaning दूत is interesting. It. gives also the meanings of सूत &c., the eleven jewels of s king. सबो वे सृतः विशो वे मरुतः वैश्यो वे प्रामणीः। सविता वे प्रसविता प्रसविता क्षत्ता । संप्रहीत-समोवी वा आश्विनी सयोनी सव्यृष्टि सारथी समा-नेष्ठिरथमधितिष्ठतः । पूषा वे देवानां भागधुक् एष वा प्तस्य भागं दुहोति ॥ अक्षावाप and गोविकर्त are embers of fire. Finally in राजसूय we have प्रहेशो वै पालागलः अध्वानं वै प्रहित पति । एतानि एकादश रत्नानि.)

Chapter XXI describes Purushamedha, for अतिष्ठाकाम, lasting for five nights only, for both Brahmins and Kshatriyas. The vitims already described are not to be killed but released. The Dakshinā for Brahmins is सर्वेख and for Kshatriyas the same as in Aévamedha with the addition of men and wealth in the four regions!!!!!! Next is mentioned सर्वेश्वय for सर्वेक्ट्स, lasting

ten nights, the ten higher sacrifices being performed on ten days and the Dakshinā being the same as for Purushamedha. Finally पितृमेघ is described to be performed in मीष्म, शरत, and माघ.

Chapter XXII describes एकाह, विश्वजित and other sacrifices, with previous ceremonies performed in different ways and with Dakshina, usually a thousand. In the description of साबस्क are mentioned आजानेया अपर-जने (2, 23) प्राञ्चेषु हस्तिन: (2, 24) and अश्वतरीरथमुदीच्येषु (2, 25) showing the author's correct information about the important products of Aryan countries, viz. the good horses of the west, the elephants of the east and the mule chariots of the north. He does not apparently know the Deccan and the South. The इयेन (eagle) sacrifice for अभिचार (magic) is more detailed here than in Apastamba. The sacrificial shed is to be erected on a barren ground facing the south (instead of east). The fire sticks (इधा) are to be of बिमोतक and the fire-grass (बाई) of arrows. The priests are to be red-turbaned and red-clothed with निवीत (left shoulder being bare) and the Dakshina is to be nine each of काण, खोर, कूट and बण्ड animals. These and many other distinguishing features show the evil nature of the sacrifice. Next is described बाल्यस्तोम, the Dakshina of it being given to मागधदेशीयब्रह्मबन्धु who seem to be known as fallen Brahmins (4, 21). Agnishtut is prescribed for various desires, for one who thinks himself to be impurs (अपूत). Brihaspatisava is prescribed for a Sthapati who may be elected by kings or Brahmins (सराजानो नाह्मणा वा पुरस्कुर्युः). A सर्वस्तोम and four वाचस्तोमs are next described. A वैश्यस्तोम is prescribed for one who desires cattle (Vaisyas being keepers of cattle) whether Brahmin or Kehatriya. उन्त्यो गोसवोऽयुतदक्षिणः। सराजानो विशो-यं पुरस्कुवीरन् । स एतेन यजेत (11, 8) describes the Gosava. Certain magical rites for political purposes

are prescribed for kings as well as peoples (जनपद).

Chapter XXIII next describes the Ahīna sacrifices. द्वादशोपसत्काः मासापवर्गाः सहस्रदाश्चणाः। पोण्डरीकेऽयुतम् ; ज्योतिष्टोम-विश्वजित्तित्रवृत्पञ्चदशसप्तदशैकविंशाः। यथासंख्यमृद्धिपञ्चब्रह्मवर्धसर्वार्यात्रप्रति-ष्टाकामानाम्। shows the concise style of the Sūtra. आप्ती-र्यामः प्रेव यस्मात्पश्चते भ्रंशेरन् (19). There are other sacrifices described like आभिजित्, वेदयस्तोम, ज्योतिगौ and सर्वस्तोम उत्तम. Of Dasarātras, ककुप् and कोसुरुविन्द are described, as also Chhandoma and Paundarīka for सर्विद्धिकाम.

Chapter XXIV describes Sattras beginning with द्वादशरात्र, एकोचयेन चल्वारिशदन्तानि beginning with षडह and ending with आतिरात्र, with महात्रत in the middle. sacrifices गवामयनादि last a year or more such as आदित्या-नामयन, आंगिरसानामयन, दतिवातारयन &c.; after six months मध्येवतम् । उत्तरतः प्रतिलोमम् . कुंडपायिनामयन commences • on पूर्णिमा or चतुथ्यीमपरपक्षस्य (com. फाल्गुनापरपक्षस्य चैच्यां वा. Months seem अमान्त). सर्भनत is hereafter described as also নাদিয়ন of one or three years. Mahāsattras like प्रजापतिसत्र of twelve years and शाक्तथानामयन of 36, शतसांब-सर of साध्यक and सहस्रसंवतसर विश्वसृजाम are described (अहां वा शस्यत्व त may make a year a day). यात्सत्राणि सारस्वतानि are called so, because they are performed while travelling (यात्वा यात्वा &0.). दीक्षा सरस्वतीविनशने । शम्याप्रध्वंस शम्याप्रासे यक्ष्य-न्तो यजमानाश्च दाक्षणेन तीरेण यन्ति (XXV, 6, 5). On the junction of सरस्वती and दश्द्रती a ceremony is performed. When द्वस प्रस्तवण is reached, they return. Avabhritha takes place at कारपचन or the Jumna. A दार्वदत sacrifice is mentioned, to be performed at नैतन्धव which, the com. states, is an old village on the सरस्वती. The अवस्थ in this sacrifice takes place at विष्ठशावहरण on the Jumna. All these places were familiar to the Aryans in this period. the sacrificial cult having developed in the region of the सरस्वती and दषद्वती, consequently called ब्रह्मसदन. A तरायण sacrifice is next mentioned and सर्वामिष्टीम द्वादशमह ; and उत्सर्गिणामयन. A new sacrifice named नारायणपुरुष is finally mentioned as the best though not described, which indicates the late date of the Sūtra.

Chapter XXV gives Prāyaśchittas in all matters beginning with Agnihotra and Chapter XXVI describes the महाबीर in Pravargya. It is a figure to be made of earth brought from a बस्मीक or a pond used by boars, महाबीर करोति प्रादेशमात्रम्ध्वेमासेचनवन्तं मेखलावन्तं मध्यसंग्रहीतम्ध्वेखलागास्त्रगंगुलमश्चक्तया पूपपति describes its figure and making. This is the first place where an idol is mentioned in sacrificial literature.

IV Ās'valāyana S'rauta Sūtra.

We now go on to Aśvalayana's S'rauta Sūtra which belongs to the Rigveda. Its style is concise and it avoids all repetitions, only using words which are absolutely necessary. Thus Chapter VII begins with the word सत्राणाम, while other Sūtras would have begun with अथ सत्राण स्थास्यास्यासः. As an instance of avoidance of repetitions may be quoted प्रोध्याद्यासः अशिवार्यस्य अतियवेश्यापत्रष्टाः। Other examples will appear from the following. Aśvalayāna thus may be treated as the latest writer, though brevity of expression is a personal peculiarity and would not be a decisive factor. The contents, however, also show that his treatment of the subject is the latest.

The Sūtra is divided into two halves called पूर्वार्ध and each half contains six chapters called Adhyā-yas. We will, however, for brevity number the Adhyā-yas consecutively from I to XII. Each chapter consists of several sections called Khandas and the total number of these is 164 (96+68). Each Khanda is practically one continuous sentence and there are no separate sūtrās as such. The treatment of the subject is in the nature of a Paddhati giving the procedure

without discussion as in Baudhāyana, or reasons as in Kātyāyana. Other opinions are noted now and then. The opinion of Achāryas generally is frequently mentioned, but the name of S'aunaka, the Acharva of Asvalayana, is not mentioned anywhere, except at the end where after Acharyas, he is specially saluted (नम आचार्यभ्या नम: शीनकाय). These Acharyas are probably of Rigveda. Gānagāri and Kautsa are often mentioned and Taulvali only once or twice. The special views of Aitareyīnah are noted in VII 10, which shows that Aśvalāyana does not strictly follow Aitareya Brāhmana, as Kātyāyana follows S'atapatha. The Rigveda Samhita of course is constantly drawn upon as Rigmantras are constantly prescribed, the Sūtra being specially intended for the Hotri. These mantras are mentioned by their beginnings; and so many Riks from such and such Sukta is the usual method of reference.

The subjects are practically the same as those in other Sūtras but they are treated very briefly. The order is also nearly the same as in other Sūtras beginning with Darśapurṇamāsa, Agnyādhāna and so on, proceeding up to the higher sattras in the Uttarārdha. We will give the contents of the several chapters with the interesting facts found therein.

The Sūtra opens with the sentence अथैतस्य समान्नायस्य (this only being recited at S'rāvaṇī to indicate this Sūtra). नितान योगापत्ति व्याख्यास्यामाऽग्न्याध्यप्रसतीन्याइ नैतानिकानि follows. The com. explains this as शाकल्यस्य वेदस्य प्रयोगे, and नैतानिक is defined as rites on the नितान fire. Chapter I then takes up दर्शपूर्णमास. इत्येव जिपत्वा कोत्सो हिंकरोति shows that Sāman procedure is also noted, एकश्चित recitation is defined as उदात्तानुदातस्विताना परः सिक्षक ऐकश्चर्यम्. The reciting of Pravaras occurs in the very beginning; but यजमानस्यार्थेयान् प्रवृणीते यावन्तः स्यु: requires the mention of as many as there may be and "not four nor more than

four". But this rule is mentioned further on. पौराहि-त्यान् राजविशाम् । राजवीन् वा राज्ञाम् । सर्वेषां मानवेति संशये । deserves to be noted and will be discussed in a note. इति शाट्याय-निकम् refers to a Sütra and not the opinion of an आचार्य as in इति कौत्सः. S'ātyāyana is the well-known author of a Brāhmaṇa or Kalpa not extant now. (See Pāṇini's पुराणप्रोत्तेषु ब्राह्मणकरपेषु).

Chapter II describes अन्याधान and gives the नक्षत्रs for it; they are the same as in other Sūtras. The seasons are वसन्त for Brahmins and मीष्मवर्षाशरदः for क्षत्रियवैश्योपकृष्टाः Who is उपऋष्ट and why is रथकार not noticed here as in other Sūtras? (Probably the special importance of ব্যক্তার was gone and we find nowhere in this Sutra mention of new or old Rathas as Dakshinā. Perhaps the mixed castes had arisen by this time and they are designated by This would make this Sutra the latest of all.) But for Soma sascrifice no particular Nakshatra or Ritu is necessary (this is also an indication of lateness as सोमेन सक्यमाण ऋतुं न पृच्छेन्न नक्षत्रम् is added). प्रत्यृष्टं रक्षः प्रत्यृष्टा अरात्यः occurs here only. The Rakshas and the enemy whom the Apastambas constantly feared are no longer very troublesome. It may be noted that the kindled sacred fire was treated most respectfully by the Indo-Aryans, as his permission was sought when the house-holder went on a journey and he was prayed to for the safety of his kin and cattle during his absence and he was most respectfully approached on return and thanked with suitable mantras. Very often such mantras are newly prescribed by the Sūtrakāras. Then follows पिण्डपित्यज्ञ (offering of oblations to the manes), as in other Sutras, to be performed on Amāvāsyā. ये च त्वामत्रात is explained by the remark तस्मै तस्मै ये एषां त्रेताः स्यारिति गाणगारि:. When a Pinda is offered to a dead father, along with his name the words ये च त्वामत्रानु ("and to those who are after you") are uttered even now. Ganagari holds that the names of

these should be separately recited. Perhaps this refers to the ancient practice that some followers burnt themselves along with their master and these were to be remembered along with the master. This explanation is likely as one finds the practice still observed in Japan and as Baṇa mentions it in Harshacharita. प्रस्भितरानचेयेत् तद्श्वलारेप्रेतेभ्यो निष्णीयादिति तोच्चित्तः is also to be noted from which गौतम differs.

It is remarkable that पुन्ताशान is not described in detail as in other Sūtras, nor its Nakshattras given. Agrayana is shortly noticed. The verses given in full and having accents are probably from other S'ākhās. The Kārīrī Ishti for न्येकाम is also given here and mantras from the Rigveda with their Pratīka are given. Chāturmāsyas are briefly noticed but no Rituyājas are mentioned. The जुनासीश्रीय to be performed on Pañchamī after Pūrnimā is also shortly noted.

Chapter III describes the qu called se here and not बंध. अमित्रणयनमुक्तम् gives reference in short. to what has already been described. समिधमिति वसिष्टानाम notices a different method for Vāsishthagotrins (as in II, 12 वसिष्ट-ञ्चनकात्रिवध्यक्षराजन्येभ्योऽन्यत्र). Certain procedure differed in certain gotras. How the Pasu was to be killed is not even noted. Sautrāmani is also shortly described, but surā is not actualy to be taken as the direction is प्राणमक्षोड्य. This also indicates lateness as the permission to drink liquor in Sautrāmanī is taken away. In the 10th Kandikā we have prāyaschittas given, introduced by the well known dictum विष्यपराधे प्रायश्चित्तम. These are very briefly given with the necessary mantras. schittas for mishaps are also noted further on, such as the sacrificial cow not giving milk, the breaking of Kapālas and pots, spilling of oblations and so on. If the the fire goes out, the substitutes are given by the typically brief sentence प्रवालाभे उत्तरीत्तरं बाह्मणपाण्यजकर्णदर्भस्तम्बाप्स । काष्ठेषु प्रिष्ट्यां हुत्वापि मन्थनम्.। But certain severe penitential Vratas are prescribed, viz. ब्राह्मणपाणी चेहासेऽनवरोधःकणे चन्मा-सवर्जनं स्तम्बे चेनाधिशयीत अप्तु चेदविवेक एतत्सावत्सारिकं व्रतम् याव-स्तिवं वा।.

Chapter IV describes very briefly Soma sacrifice which is described with such interesting details in other Sūtras. The sixteen priests required for it are noted here also by name in four sets. There is no erection of a sacrificial shed. दीक्षा is briefly mentioned as also the purchase of सोम which here also is called Rājan and treated as such. Its reception is mentioned but not its pressing. Many mantras, however, are given. Mahāvīra is cursorily mentioned once. Pravargya is mentioned (इत्युच्प्ये: प्रस्त्र can not be understood). A cow is then milked and fresh milk mixed with Soma. After many mantras in praise of Aśvins, Soma is offered to Agni and then it is drunk by the दीक्षिता: and गृहपति:. A Paśu ends the sacrifice, followed by many mantras.

Chapter V describes the morning, midday and evening savanas (भू: खाहा for the morning, भुत: स्वाहा for the noon and भूभेन:स्नाहा for the evening). A verse is quoted which seems to be from some work of late date: कत्याजान् द्विदेवत्यान् यश्च पत्नीवतो प्रहः। अदित्यप्रहसावित्रौ तान् स्म मानु-वपटक्या: । How, when and in what order the Soma is to be taken is noted in detail with the mantras for each drink. Opinions differ here, as in formal tea-drinking (तेषां होतामें भक्षयेदिति गीतमः). Rītuyāja is here noted in passing. Ahāva is described and the Saman cries and बोम् &c., wherein Om is to be introduced in different places and on different occasions. Grāvanah in the plural occurs, where many stones are used in pressing. The Abhishava is described. Dakshinā is here mentioned for the first time but the mantra for it seems to deprecate it (v 13). The Marutvatīya graha (taking of Soma) and other grahas are finally described. And everywhere the याज्या mantras are prescribed but nowhere the अनुवाक्या, the former being for Hotris and the latter for Adhvaryus. अथ तृतीयसवनमुत्तमेन स्वरेणादिस्यस्य prescribes the high pitch of voice for reciting mantras at the evening Savana.

Chapter VI speaks of 3727 and other higher sacrifices called समझंस्था in which Soma also forms a part. mantras given in detail are mostly addressed to conquering Indra. Asvins are also to be praised and the posture of the priest when praising is prescribed in an interesting way (यथा शक्तनिहत्पति पननप्यकृतस्वेव।श्विनं शंसेत्। VI 15.). If the purchased Soma is lost or burnt and can not be purchased again, the substitutes recommended show that the Sūtra is the latest and belongs to a time when Soma was almost unobtainable (अन्धिगमे प्रतिकान. फाल्युनानन्या वा ओषधयः VI, 8). If a sacrificer dies before अवभूष, the funeral ceremonies to be done including केशवपन. नखानकतन &c. are described in 10. Herein Alekhana and Asmarathya, the two differing authorities in Apastamba, are mentioned. The समस्या: are enumerated in the beginning of 11 as अमिष्टाम, असमिष्टोम, उक्य, बोडशिन, वाजपेय, अतिरात and अप्तोगीम (इति संस्थाः) and these are noticed in brief. In each of these, formal invitations are to be given by the words श्व: सुत्या. In the pressing of Soma, द्रोणकलश is here mentioned; but प्राणमञ्ज is prescribed and not actual way. Devayajana or sacrificial shed is here mentioned with its four doors in four directions and which door is to be used by which person is prescribed carefully here as in other Sütras.

The Uttarardha relates to the Sattras, the general procedure of which is given in the first chapter (VII). The various suktas of the Rigveda which are to be recited with the number of Riks to be taken in them are given in detail and various Samans to be sung in the Stomas are mentioned. The number of verses is increased

in the Stomas as follows: पंच ससदसे नवैकविशे द्वादश चतुर्विशे पंच-दश लिणवे एकविश्वति खयाँकेशे द्वात्रिशतं चतुश्वत्वारिशे पटित्रिशतमष्टाचत्वारिशे एकाल्पसीर्यो (5). The Nyūnkha and Ninarda of the vowel ओ are a peculiarity of the Hotri recitation mentioned here; for they belong to the Rigveda reciters at such sacrifices only. They are probably borrowed from Sāman singers. The Sūtra gives examples actually how the Nyūnkha is to be made. Thus in the Rik आपा ३ रेवती: क्षय-था हि वस्व: । ऋतुं च मदं विभृथामृतं च।। the ओ of पो is to be lengthened in different ways. Ninarda seems to be a reduplication of the Nyūnkha.

Chapter VIII continues the same subject and mentions that certain Riks are to be recited 988: (by quarters) and अधेर्चशः (by halves) and by permutations of the order of Riks called Vyatimarsa. The Pratigaras given are curious, ending in जरितराधामोदैनोम्. Kuntapa suktas are here mentioned, viz. इदं जना उपश्रता &c. (included in Atharvaveda). Various Samans are mentioned for use. The Chhandomā rite is described and along with Rigmantras are given many new Anushtup mantras addressed to Agnāmarutau. In 13 Chāturhotra mantras are recited which remind one of T. B., where a symbolical sacrifice is described in which चित्तमिशासीत। बारवेदिरासीद । and so on. Lastly in 14 a sacrifice is mentioned for a Brahmacharin in which the word आचार्य is used. This is plainly a Grihya rite, for Acharya is never mentioned in a S'rauta rite. This perhaps is like the समावतिन rite in Baudhayana and shows that a Gribya Sütra was not yet in existence,

From Chapter IX we have higher sacrifices the प्रकृति of which is अहीन एकाइ. The details given here are not well understood. We have here the first mention of a large दक्षिणा in this Sūtra, viz. द्वादशशतदक्षिणः (1). We have उक्तानि चातुर्मास्थानि सोमान् व्याख्यास्थानः at the beginning of 2; but Soma has already been sacrificed. We have

here the first mention of Varunapraghasa and Sākamedha. In 3 Rājasūya is described very briefly. Abhisheka is merely hinted at; but the recital of the Saunahsepa Akhyānā by the Hotri seated on a golden cushion to the annointed king seated with his son and ministers on a golden cushion, is mentioned. The Dakshinā to the Hotri is one thousand (gold or silver?) and one hundred to the प्रतिगरित. Even when not sacrificing, a conquering king should hear this Akhyana. Other rites connected are mentioned, together with दशपेय (not mentioned in preceding sūtras). The Dakshinās mentioned in this Sūtra are very moderate and not excessive as in others: सीवर्णी सगुद्रातरश्वः प्रस्तोत्रर्धेनः प्रतिहर्तरजः सबद्धाण्याय द्वादश षष्टीद्यो गर्भिणी ब्रह्मणे वशा मेत्रावरुणस्य रुक्मो हातुर्ऋषमा ब्राह्मणाच्छं-सिन: कार्पासं वास: पोतु: (!!!) क्षोमीवरासी नेष्टुः त्रिवर्षः साण्डो प्रावस्तुतः. (4). Many Stomas not mentioned elsewhere are mentioned auch as उशनसः स्ताम, गोस्ताम, भिन्ताम &c. Next comes बृहस्पति-सव for which the दक्षिणा is एकादश or एकादशशत or एकादशसहस्र !!! (5). Other sacrifices for various desires अनकाम, प्रामकाम &c. are noted including the अभिचार sacrifice where the priests have to wear red turbans (लोहितोष्णीषाः) as mentioned in other Sutras. भृतिकामराज्यकामात्रायकामोन्द्रियकामते-जस्कामानामेते कामा द्वयोर्द्वयोर्ऋषिस्तोमा वात्यस्तोमाश्च प्रष्टवाहानि नाकसद ऋतस्तोमा दिकस्तोमाश्चामिष्ठवाहानि (8). Ritapeya, Atimurti &c. show the further development of the sacrificial cult. Next is mentioned वाजपेय for आधिपत्यकाम (this is new) and every thing in सप्तदश in it (सप्तदश दीक्षा: &c.). After the Rik mantras for this are given, the दक्षिणा prescribed is any fabulous sum from शत to पराध्ये including 17 gold-caparisoned elephants. (9). This is the only place where exhorbitant दक्षिणा is prescribed in this Sutra. Finally अप्तीयाम is described with its special procedure and mantras for obtaining cattle; the दक्षिणा is पर:सहसाः श्वतमाभतरीरथी होतः (11).

Chapter X gives further sacrifices for various desires;

সনিষ্মে, पंचमारदीय and others with their special mantrassuch as पुरुष्टिन्दु &c. पेण्डरीक is next described. Finally Asvamedha is described in detail for all desires or for conquering all. The guards of the horse are not, however, described in detail nor the queens. But the Pāriplava which is recited to the king during the whole year is given in detail and deserves to be compared with the details in S'atapatha in a special note. The philosophical conversation in which the Hotri and the Adhvaryu indulge is interesting and is not given in the other Sūtras. The questions are old ones as also new and we give these also in App. for the curious reader. After some further particulars, the ব্রুজা is given as মুদ্দিব্রুজন্মলার্জান বিশ্ব in the four directions to the four chief priests. This is a little saner than in the other Sūtras.

Chapter XI in the first six Kandkas describes the Ratri-Sattras lasting from one night to 68 and एकोन्शत nights with the various combinations in them of प्रायणीय, अभिजित. विश्वजित, आमेष्ठव and other rites as also the objects for which they are to be performed such as खर्ग, प्रतिष्ठा &c. In 7 it. speaks of the गुजामयन sacrifice extending over a year and details what sacrifices and rites are to be performed in the several months, the particulars of which, it appears, differ from those given in other Sūtras. And the last chapter XII gives the sacrifices higher than ग्वामयन which is their प्रकृति, such as आदि यानामयनम्, अंगिर-सामयनम्, दतिवातवतोरयनम्, कुण्डपायिनाधयनम् in which सोम is bought and drunk, and the inexplicable सप्राणामयनम्. A Gavāmayana lasting for three years compounded of three each year and four kinds of तापाञ्चत lasting for one, three, twelve and thirty-six years, Prajapatisattra of 12 years, साध्याना शतसंबत्सरं सत्रम and finally विश्वसूजा सहस्रसंबत्सर-सत्तम्, all of them imaginary Sattras, also mentioned in other Sutras, are mentioned here perhaps for completeness without details. The Sarasvata sacrifices on the

banks of the Sarasvatī going higher up each day ending with प्रक्षप्रस्तवण and with अवभूष on the left bank of the Jumna, mentioned finally, may have been a sacrifice actually performed by some. In section 8, all the Vratas of a sacrificer (सत्रिन्) are given, thus avoiding repetition, And these include सर्वशश्च वर्जयेयुः ग्रामचर्या सरणं विवृतस्मयनं स्नथभि-हासमनायीमि भाषणमन्तं कोधं &c. He is further to live on milk of cows milked with certain restrictions, or fruit. Finally the division of the animal killed in sacrifice into 36 parts is described as seen by श्रोतऋषि देवमाग. "To divide it in any whimsical way as the Selagas do is sinful"; and this पन्न alone is स्वार्थ, a statement made in other Sūtras also.

V THE AGE OF THE S'RAUTA SŪTRAS FROM ĀPASTAMBA

We have already fixed the age of the Srauta-Sūtras as lying between 1900 and 800 B.C., the dates of Maitryupanishad and Pānini. An indication of this period is found in Apastamba, though not as definite as that of the Vedanga Jyotisha. In Praśna VIII, the seasons are described by months named from Nakshatra Pürnamāsīs. These month-names came into vogue towards the close of the Brāhmana period. Previously the month-names were मधु-माधन &c. and were connected with the seasons. In the Aryan habitat beyond the Himālayas, the seasons were five or six, viz. वसन्त, श्रीष्म and so on. In the middle country of India, the seasons were practically three; and owing to the precession of the equinoxes, they had lost connection with the old names of months. The new month-names, however, did not lose connection with the Nakshatras on the full-moon day. These months by their new names are mentioned as concurrent with certain seasons. Then again, there was a disturbance between old seasons and old months. The two sacrifices Rituyāja and Chāturmāsya were, therefore, distinguished (VIII, 4, 12). The three season-sacrifices were at the com-

mencement of बसंत; प्राहट and शरत by the names of वैश्वदेव, वरुणप्रवास and साकमेध (13). By months the first was to commence on फाल्मनी or चेत्री full-moon and the second वरणत्रवास (for the deity of water) began on आबादी or आवणी full-moon after four months (ततश्चतुर्ष मासेष् आषादयां श्रावण्यां वोदवसाय वरुणप्रघासैर्यजते). This shows that while in ancient times of the Sanhitas the rainy season commenced with श्रावणी पूर्णिमा (a time still observed by Brāhmins for श्रवणाकमें or stoppage of studies on account of the rains), in the days of the Sūtras the rainy season had shifted back and commenced usually about आषादी Pūrnimā. Whether we take the month-names as अमान्त or प्रणिमान्त, both systems being then in vogue, the Pūrņimā day is fixed and definite. Now in Kālidāsa's days, the rainy season usually commenced on the Pratipada of Ashādha (आषाढस्य प्रथमदिवसे मेघमासिष्टसानुम्); while in our days it commences usually on गुद्धप्रतिपदा of Jyeshtha. (In our time also both अमान्त and पूर्णिमान्त months are used, the first, south of the Vindhya and the second, north of it.) Thus from the time of the Apastamba Sūtra, whether we take its months to be अमान्त or पूर्णिमान्त, the rains have shifted back now by about a month and a half which means that the equinoxes have slided back by about 45 degrees. This precession would take about $45 \times 72 = 3340$ years and the date of Apastamba Sütra comes to about 3340 - 1920 = 1420a.c. The date of the Samhitas would be the भागणी पूर्णिमा rainy season or a month later i.e. 80 \times 72 = 2160 years before Apastamba, viz. about 3580 (1420 + 2160) B. C.

Though not connected with this Vedānga section, we may discuss the date of Kālidāsa for the curious reader as afforded by his 'आषादस्य प्रथम-दिवसे भेजमाश्चित्रसाज्ञम् '. If this आषाद is अमान्त, his rainy season would commence about 15 days before that of Apastamba and his date would be about 1080 (15×72) years after him, i. e. about 340 B.C. But if this month is पूर्णमान्त, Kalidāsa's rainy season would commence 30 days earlier and his date would be 2160 years after that of Apastamba or 720 A. D.

Of course these are calculations on a rough basis whether for Apastamba or Kālidāsa. For the commencement of the rainy season is not a fixed phenomenon, as the coming together of the sun and the moon in Dhanishṭhā at the commencement of Uttarāyaṇa is, which gives us an unassailable date for the Vedāṅga Jyotisha or its falling in the middle of it which gives us the date of the Maitrāyaṇīya Upanishad. Moreover, Apastamba might mention आपादी पूर्णिमा in obedience to a long-continued practice, as आवणी is performed even now on अवणी पूर्णिमा in obedience to a practice of about 5000 years.

It is necessary to explain here certain adverse facts on which Garbe would assign Apastamba Sutra to the 6th century s.c. and to the

Andhra country, following Bühler who expresses: this opinion in the preface to his translation of the Apastamba Dharmasutra (Preface, p. xvi Vol. III). The Arvans no doubt had gone into Andhra in the days of A. B about 2000 BC. And as Apastamba-Sūtra-Brahmins are mostly found even now in Andhra, it is possible that this Sutra was formulated there. But the date 600 B.C. can not be accepted and the various arguments advanced for this date have to be answered. (1) The occurrence of some Prakrit forms has led Bühler to observe with regard to the authors of the ritual in the Grihya Sūtras: these men were Yājnikas whose literary education, according to Pāraskara Grihva-sūtra 2, 6, 8, in ancient times was as deficient as in later times. All the Sūtras which have come down to us, belong to the time when the Prakrit dialects were in general use in daily intercourse and as the official language throughout the whole of India." This wrong notion has arisen from looking upon the autors of the Grihya Sūtras as those of the S'rauta Sūtras. Though the names are the same, the persons are different, as stated already, from language and method of treatment. Śrauta Sūtras are pre-Pāṇinian as admitted by even European scholars. And in Panini's time the Prakrits had not even arisen, much less become the official language or even the language of the higher classes as in the days of the Mauryan

to whose time (300 B.C.) European scholars wrongly assign Pāṇini. Pāṇini knows not the words Sanskrit and Prakrit and uses for the former the simple word मापा. In his time Sanskrit was the spoken language of the Aryan people, the official language of the state and even the language of the generality. The Sudras and Dasas spoke the same language in a debased form and thus arose Prakrits in later times which were adopted by the Aryans as their spoken language long after Pānini. The writers of the Śrauta Sūtras were again not illiterate Aryans; but even illiterate Aryans then spoke Sanskrit much as uneducated common people in England speak English a little different from the English of the cultured people. A few forms in this Sūtra, therefore, in which न is changed into ण and ऋ into इ are not to be wonderd at. (2) The word Ghota for अब in XV 2, 13 is Sanskrit. The word Ghota is looked unon as Hindustani: but Hindustani words are Sanskit unless shown to be Arabic or Persian or borrowed from a Dravidian language. non-ocurrence of such words in classical Sanskrit does not make them Dravidian, as several common words of the original Vedic language dropped out of the classical literature but were preserved in the language of the people and are used even now. A glaring instance of this is the word Achchha not found in Sanskrit of the classi--cal writers; but it is found even in Rigvedic verses.

Then again the names of many things of ordinary use which had no occasion to be mentioned in classical writings look like Dravidian words. Such things as different sorts of Vinas must have had different names in the common language of the people even then. The word तंबलबीणा found in XXI is one such word; it is not a Tamil word as supposed by some. A word used in common parlance may appear like a Dravidian word; but unless shown to be such, it leads to no inference. (3) Finally forms like इन्णी found in this Sūtra occur because this Sūtra has been preserved in the Andhra country. We have shown how z has crept into the Rigveda for s because it has been preserved mainly in the Deccan by Deccani Brahmins. That sound was not originally used by the Rishis. Similarly the use of work in place of work in a few places must have crept in in Andhra, the people of which, formed of the admixture of Arvans and Dravidians, are addicted to utter minstead of a and æ instead of ड. इवणी alone being of common use, however, has this form and not many words and this form also occurs in Kātyāyana Sūtra which also has mostly been preserved in the Deccan.

VI GOTRA PRAVARA CHAPTERS IN THE S'RAUTA SŪTRAS

These chapters are found at the end of the Apastamba, Asvalayana and Baudhyāyana and in the middle of Kātyāyana Śrauta Sūtras. On comparing their contents, it can be inferred that Baudhyāyana is the latest. The chapter in Apastamba is itself a late addition to it, but the contents are unmistakably earlier than those of the other three Sūtras. Pravaras appear to be a later development of gotras. Gotras were established even in Upanishadic days; since besides the name of a teacher and that of his father, we have a gotra name given, such as Gautama or Vaiyāghrapadya. The Pravaras grew out of sacrificial necessities. The priests at the sacrifices were to be selected from such gotras as were -cognate. The election ceremony called अवरण gave rise to the word sat. The rites in different Rishi families appear to have differed and in selecting priests, the Yajamāna had to see that they were of the same family of gotras. This practice gradually gave rise to Pravaras for which rules are found first given in Apastamba. The rule मंत्रकतो वणीते shows that the Prayara Rishi must be the author of mantras to be found in the several Samhitas. If there were many such in one's family, only five were to be mentioned and not more, as also never four (न चत्री वृणीते न पंचाति वृणीते-आप॰). It had to be declared to what Gotra and Pravara the Yajamāna belonged as also the priests, so that the same ritual was assured. This practice of declaring one's Gotra and Pravara has enabled the Brahmins and Kshatriyas to remember their descent from particular ancient Vedic Rishis down to this day.

These Gotras and Pravaras, however, are not different for the different Vedas. Brahmins and Kshatriyas are now divided into Rigvedins, Yajurvedins &c., i.e. followers of particular Vedas. But this distinction does not appear to have arisen at the time of these S'rauta Sūtras. Sacrifices had to be performed with the help of all the three Vedas and hence learned Brahmins knew generally all the three; the Brahman especially had to be versed in all the three. Hence the Gotra and Pravara system is the same for all Brahmins and Kshatriyas. Apastamba and Asvalāvana belong to Yajurveda and Rigveda respectively; but they give the same Gotra-Pravara system. Aśvalāyana's list seems to be the later of the two; it takes the two rules vianal sulla and न चत्रो वृणीते न पंचातिवृणीते for granted (13, XII). But it attributes the necessity of enunciating Pravaras to Avapa at sacrifices which can not be well understood. Aśvalāyana's list is very brief: indeed brevity is the characteristic of his writing. Many more gotras are given by Apastamba than those in Asvalāyana; thus एष एव अविकृतः सठ-मर्गण-मद्रण-मद्रण-मद्रण-वादरायणानाम् as belonging to the Pravara आगिरस पोरकुत्सवासदरपवः; given by Apastamba is not mentioned by Asvalāyana. (It may be noted here that बादरायण is an Angirasa and not a Vāsishṭha and hence is different from Dvaipāyana Vyāsa who is a Pārāśara or Vāsishṭha). But the Pravaras are the same in both of them; and they begin with Bhṛigu, who, though not one of the Saptarshis, seems to be the oldest or highest Rishi, as all Pravara enumerations begin with him. This explains महर्गाणा अग्रदम् of the Gītā.

It must be noted that the Gotra Rishi is not always a Pravara Rishi or Maharshi and he is called Rishi, only by courtesy. For Rishi, according to the definition accepted by all, means the author of a Vedic mantra. The Gotra Rishi is always born of such (Pravara) Rishis and, being renowned, gives a new name to the family of his descendants. Thus the Vatsas ars descendants of Jamadagni who is a Bhargava, and hence the name Vatsa does not come in, in the Pravara which is of five Rishis. viz. मृगु, च्यान, अप्रवान, ऊर्व and जमदिश. All these five are authors of mantras in the Rigveda as will be found from the list of Rigveda Rishis given at the end of Section I. The importance of these lists, as already stated, is very great for Pravara chapters and also for determining the sequence of

these chapters in time as we proceed to show.

The principle that the Pravara Rishi ought to be a composer of Vedic mantras seems to have been lost sight of by and by. (At the present day very few know it, even among learned Brahmins). The consequence was that in later lists Rishis other than the real ones got into Pravaras. If we scan the Pravarādhyāya at the end of Baudhāyana Śrauta Sūtra, such names will be found in some Pravaras. Thus Sandila-gotras (গভিতা:) have their Pravara in Aśvalāyana as follows: शंहिलासितदेवलेति कारयपासितदेवलेति वा. Now in Baudhavana's list, not only the Sandilas are found and divided into many minor-gotras, but the Pravaras given for them all are काश्यपावत्सारशांडिल or काइयपावत्सारदेवल or काइयपावत्सारासित or शांहिलासितदेवलेति वा. Now Sandila is not to be found in any of the Rishi lists (see section I). The proper Pravara for Sandilas, therefore, is the second one given by Aśvalāyana, viz. काश्यपासितदेवल, all the three कश्यप. असित and देवल being Rigvedic Rishis. This pravara should not include अवस्पार who is a Vedic Rishi, but can not come in this line, Asita being called Kāsyapa and not Avatsāra in the Rishi list. The name of Sandila began to come in Aśvalāyana's time but it not only came in but occupied a wrong place in Baudhāyana's list, and other alternatives also appeared. Lohita again is not the name of a Rishi and yet we find a new Pravara in Bandhayana mentioning him. viz. विश्वामित्राहक्छोद्दित, Ashṭaka being given as a Vaisvāmitra. This Pravara is not given by Aśvalāyana at all. Another notable instance is that of the gotra वाद्धतक whose Pravara is आत्रेपार्चनानस-वाद्धतक. — बद्धतक being a name not found among Vedic Rishis.

A more explicit evidence of the lateness of the Sūtra of Baudhāyana is the Pravara which he gives for Kshatriyas. Brahmins and Kshatrivas were originally descendants of the same Rishi ancestors some of whom were Brahmins and some Kshatriyas like मान्धात, अम्बरीष, युवनाश्व and त्रसदस्य, names which appear in some Pravaras of even Brahmins. These were two classes of different professions still and not hide-bound castes. The Sūtra of Apastamba first lays down that kings should have priests of the Pravara of his Purohita. This dictum applies to kings de facto whether they be Brahmins or Kshatriyas. And the Sūtra further provides that those Kshatrivas who do not know their Pravara should give it as मानवैलपोहरवस. As time went on, Kshatriyas lost memory of their Pravaras and Aśvalayana gives this Pravara as a rule for them, adding, however, यदि सार्धं प्रवृणीरन (this is not well understood). Baudhāyana's Sūtra this is the rule without any condition. Apastamba gives नतात्रि as the one Pravara Rishi for Vaisyas. In Baudhāyana we have three Pravara Rishis, मलन्दन, बलावि and मंदित. In the Rigveda there is a sukta by बलाधि मारुन्दन, but

ist, nor in Sāmaveda list nor in White Yajurveda list. He has been added by Baudhāyana Sūtra, as by its time the principle of Pravara was lost sight of.

But this list of Pravaras (made according to the views of Baudhāyana and not by Baudhāyana himself; vide इति मतं बौधायनस्य) is the most detailed one and gives many interesting gotras. first place it propounds Pakshas (প্যা:) or orders, a word used by the Agni-purana also which contains a detailed chapter on Gotra and Pravara. The Pakshas are of eight Rishis, Agastya plus the well-known Saptarshis (Gotra being defined by Baudhāyana as अगरसाष्ट्रमानां सप्तर्शाणां यदपत्यं तद्वीत्रमित्याचक्षते). Again, gotras are said to be innumerable while Pravaras are 49 only. This can be easily understood, as Pravaras contain composers of Vedic hvmns only. Thirdly, Pārāśaras whose Pravara is composed of परावर, शक्ति and विश्वष्ट (all Rigvedic Rishis) are said to be of various colours, viz. (black), गौर, नील, अरुण, श्वेत and इयाम (dark) and under each head five new gotras are given in Anushtup Fourthly, a family is mentioned which verses. is Vāsishtha by day and Kāsyapa by night (अहरे-सिष्ठाः नक्तं करयपाः) and their Pravara is given as कारयपा-वत्सारवासिष्ठाः. This is absurd as Pravara always indicated descent and not discipleship. For the Hotri recited the names in the descending and the Adhvaryu in the ascending order with ad added to each original name. (कारयपानत्सारासितित होता, असितवदवत्सारवत्करयपविद्याच्यप्टे:). The theory of discipleship is sometimes put forward; but it is clearly negatived by the relationship known from the names given in the Rigveda and the Purāṇas. Thus वत्सित्र मालन्दन means son of Bhalandana, शक्ति is known as a son of Vasishtha and Parāśara as a son of शक्ति. It is, therefore, absurd to bring in विश्व in the कारयप line. See also एक एव प्रवरो महिति मानव्या हि प्रजा: and मानविल्पोक्तवस clearly indicates descent and not discipleship.

The Pravaras were originally intended to regulate the selection of priests; but they subsequently came to regulate marriages also which were always to be outside the Pravara, while the priestly selection was always to be inside it. Asvalāyana gives Pravaras solely for sacrifice; so does Apastamba. But the Baudhāyana list takes them as intended for marriage and prescribes certain rules for त्यावेंय and पंचावेंय. These are copied in the Asvalayana Srauta at the end in a Parisishta Khanda. Certain further provisions are given in Baudhāyana which are copied by the Smritis. But it is remarkable that Baudhāyana's list states, in a सप्रम marriage. जाकाणीं न त्यजेत; apparently in other Varnas the सप्रवर marriage was of no account. Further it is added that such Brahmin wife should be treated like a sister or a mother. But what is meant by गर्मों न प्रव्यति ?

Lastly, certain interesting gotras may be noted. The Pāṇini gotra is given under Vatsas and Bhrigu Pancha-Pravara. This makes this list later than Pānini or 800 B.C.; for Pānini is not a gotra under any other list. Vālmīki is also given under the same gotra heading. दीर्घतमाः is an Angirasa Kākshīvata and उशनस् is an Angirasa Gautama; युद्ध is a Bhāradvāja and कीत्स is an Āngirasa Yauvanāśva. Āśvalāyana has one pravara only, viz. Vāsishtha (45) and Paippalādas are Kundina Vasishthas. Patanjala and Tandin are found in the Kapi Pravara and are Angirasas (Amahīyu and Urukshaya, author of R. X 118). Yāska gotra is also found among Bhrigus (6) as also कोरिल्य (who is a Yāska Bhrigu). There is a gotra by name कीशाम्बेय (6) which takes this list after the foundation of that city. आपस्तम्ब is probably different from आपस्तम्ब. The following नाराशंसाः are given at the end, viz. **आत्रेय-वाध्यश्व-वाध्रुल-वसिष्ठ-कण्व-शुनक-संकृति-यस्क-राजन्यवैद्याः (**?). These are probably authors of suktas recited 📭 नगांस.

VII VEDĀŇGA JYOTISHA

This work is a short treatise treating of Vedic mathematical astronomy. In the Rigvedic recension. it contains only 36 verses divided intoseven Khandas of five verses each, with one more verse at the end. The system shows the great advance then made by Vaidika observers of the sky as also by Vaidika mathematicians, as concise formulæ are given for calculating Tithis, Parvans (full-moons and no-moons) and Vishuvans (equinoxial days), the knowledge of which was necessary for performing Vedic sacrifices. Indeed the work opens with the statement "I give all the various positions of the sun and the moon for the proper performance of sacrifices, as approved of by Brahmins (ज्योतिषामयनं कृत्सं प्रवक्ष्याम्यन् पूर्वशः । विप्राणा संभतं लोके यज्ञकालार्थसिद्धये ॥) and ends with the praise of astronomy in these words "Vedas prescribe sacrifices and these are to be performed at particular times to be known by astronomy only" (वेदा हि यज्ञार्थमिमप्रवृत्ताः कालातुपूर्वा विहिताश यज्ञाः । &c). It is indeed to be wondered that the Indo-Aryans had, at so ancient a date as 1200 B.C. certain, already enunciated rules for calculating the future positions of the sun and the moon among the Nakshatras. They are of course not as accurate as those calculated under later

Siddhāntas (150 B.C. to 400 A.D.). But they are very approximate as mean positions, as shown by S. B. Dixit in his "History of Indian Astronomy" in Marathi.

The basis of calculation is a five-years' cycle called a Yuga. The solar year is taken to be of 366 days; and as in five years or 1830 days, there are 124 complete parvans (62 full-moons and 62 no-moons), the cycle of five years was properly taken as the basis of calculation. The Vedic sacrifices of Darśa-Pūrnamāsa were the most important ones and hence the Vedic year was bound to be lunar. The five years' cycle contained 62 lunar months and thus two months had to be added to 5 lunar years to make the cycle a solar one. The cycle commenced with the coming together of the sun, the moon and the Nakshatra Dhanishthā on Māgha Pratipadā at the beginning of the sun's northern course i.e. at autumnal solstice; the Vedānga Jyotisha system with its five years (names संवत्सर, परिवत्सर, इदावत्सर, अनुवत्सर and इद्वत्सर already appearing in the Taittiriya Brāhmana with their lords), therefore, started with the month of Magha, white fortnight and Uttarāyana (स्वराक्रमेते सोमाकी यदा साइं सवासवी । तदादियुगं माघस्तपः शुक्कोऽयनं शुदक्-यजुःपाठ). This. most important verse affords us the date of this work unmistakably, as shown already.

The five years' cycle of 60 lunar months and 2 intercalary months added at the end of every

two years and a half, viz. one before Śrāvana of the third year and another at the end before Māgha of the next cycle is made the basis of calculation of Tithis, Parvans and Vishuvans under rules hereafter given in verses which are not all intelligible. Great Indian scholars like Sudhākar Dvivedi, Bārhaspatya (Lala Chhotalal), S. B. Dixit and B. G. Tilak and European scholars like Thibaut have attempted to explain these rules, by suggesting certain emendations of the verses in the Rigveda and Yajurveda recensions. But unfortunately, as Tilak observes, "the last word on this Vedanga has yet to be uttered" (p. 104 'Vedic Chronology and Vedānga Jyotisha). This difficulty arises from the fact, also noted by Tilak, that the calendar was abandoned in India when the astronomical Siddhantas were formulated about the first century B.C.; and for the last two thousand years, we know nothing of the Vedanga Jyotisha calender, that work being only recited as a sacred work by Vaidikas without understanding a word of it as usual, and not used at all by astronomers. Further, the calculations of the Vedānga Jyotisha are made with the Vedic Zodiac of 27 Nakshatras and not of 12 Rasis, the latter being introduced into India by the Greeks before the rise of the Siddhāntas which almost ignore Nakshatras and use Rāsis only. The Hindu ritual for the last two thousand years has taken up Rāsis

and neglected practically the Vedic Nakshatras and thus Rasis or Lagnas are now ingrained in the Hindu mind. Then again, the minute divisions of time and of the Zodiac of the Vedanga have also been forgotten. The Vedanga system of calculation divides each Nakshatra into 124. Amsas which is suitable to its method, as the number of Parvans in a cycle is also 124. day is divided into 30 Muhūrtas, each of two Nādīs (modern ghatīs), each nādī being divided into 10 1 Kalās, the Siddhānta division of a day being into 60 ghațīs, each ghațī being of 60 palas. It is no wonder, therefore, that the Vedānga Jyotisha in the last two thousand years remained entirely neglected, till taken up by inquisitive European antiquarians and mathematicians.

The Vedānga Jyotisha is found in two recensions, viz. Rigvedic and Yajurvedic and there is a third, Atharvavedic, which is a very late one as we shall show. The verses in the Yajurvedic recension are 43 and are changed in order as shown by Dixit (p. 72). The work proposes to propound the knowledge as taught by Lagadha: काट्यानं प्रवस्तानं प्रवस्तानं अवस्तानं अ

on the basis of the astronomical data found therein as also from other arguments (p. 90).

We have already quoted the verse wherein this datum is given, viz. the sun, the moon and the Nakshatra Dhanishthā being together at Uttarāyana on Māgha Suddha 1. It is followed by another verse equally clear, viz. प्रपदोते अविष्ठादी सूर्याचन्द्रमसानुदक्. "In the begining of Śravishthā the sun and the moon turn towards the north." The tense is present and this conjunction was observed as occurring in the days of Lagadha. This datum can be made the basis for calculation of the date of this fact, as owing to the precession of equinoxes, the Uttarayana point has receded back upto our time, from the beginning of Dhanishtha to a point somewhere in Pūrvāshādhā. Naturally this position of the solstices recorded in these verses attracted the attention of early European sholars like Colebrooke and Sir William Jones, as stated already (Sec. I p. 36). The attention of Max Müller was drawn to it and it was pointed out to him that the date of the Vedānga Jyotisha evidenced by it was "about 1200 B. c." and was inconsistent with the date 1200 to 1000 B.C. assigned by him to the Rigveda itself. We have already shown how Max Müller vainly tried to get over this difficulty (ibid. p. 32). This date, whether we take 1400 B. c. as fixed by Dixit by taking the beginning of Dhanishtha as the star - Del-

phini itself, or 1200 B.C. as fixed by Colebroke or 1192 B.C. as calculated by Archbishop Pratt for Max Müller, is the most important date in the history of Vedic literature, as the whole of that literature commencing with the Rigveda must be placed centuries before it. Most European scholars, however, seem to pay no attention to it, either ignoring it altogether or minimizing its value somehow. Thus Winternitz observes at. page 289: "The very circumstance that it (Vedānga Jyotisha) is not written in prose refers this little work, which, moreover, has not yet been sufficiently explained, to a later period." Now even if we concede that the work as it is before us in verse is a late one, the astronomical observation recorded therein and the system of astronomical calculation based upon it remain and unquestionably go back to 1200 B. c. at the latest. The verses further in which these facts are recorded are clear and are not the subject of any controversy and do not require any explanation. Thus the cycle of five years, the month of Magha commencing each cycle, Uttarāyaņa commencing on Māgha Śukla 1, at the beginning of Dhanishtha are facts clear as day. On these facts this method of framing a calendar was eunnciated by Lagadha at a time when the whole Vedic literature had been written, viz. the Samhitas, the Brahmanas and the 18 older Upanishads. For the Maitravaniya.

Upanishad refers to an earlier position of the Uttarāyana, viz. in the middle of the Dhanishthā division. Then again, the names of months Māgha &c. are not found in the Rigveda or the Yajurveda Samhitas; they were introduced about 2500 to 2000 B. C. And the first month was then taken to be Mārgaśirsha, as will be shown later on when we speak of the Bhagavadgītā. The new system of Lagadha made Māgha the first month and this mode of reckoning lasted till the first century B. C., when this month reckoning was again changed and Chaitra was taken as the first month. It does not in the least affect our argument based on the Vedānga Jyotisha system, if we concede that the work before us is a late one. The system of Lagadha is as old as 1400 BC or at the latest 1200 BC as calculated by Archbishop Pratt and is itself posterior to the Brāhmanas and the older Upanishads, not to speak of the Samhitas.

But we need not concede that the work before us is a very late one. At most it may have been composed a few centuries after Lagadha. The objection that it is in verse is of no value. We have some of the older Upanishads themselves in verse, containing Anushtup and Trishtup slokas. Slokas again are mentioned in Brihadāranyaka and the Maitrī Upanishad quotes slokas from the Vedic literature then current (1900 B.C.).

Further, as pointed out by Dixit, the work

uses old names of Nakshatras such as Śravishthā for Dhanishthā, Aśvayuk for Aśvinī and Śatabhishak for Śatatārakā (p. 90). As pointed out. by Haug, the work uses the word वर्ग for day which had disappeared even in the time of Yāska and Pānini (ibid.). Weber is clearly wrong when he says that the work uses the word Rāśi in the sense of the signs of the Zodiac; the word evidently means, from the context itself, a sum or a figure as in Chhāndogya where the word means arithmetic from this sense (as in त्रेराशिक). The Jyotisha is earlier than Garga and Parāśara who are mentioned in, and therefore. older than, Pānini (Kunte). It follows thus that we shall not be far wrong if we hold that the work, as it is before us, is itself as old as 1000 B.C.

The Rik recension is actually learnt by heart and recited by Rigveda Vaidikas; but the Yajuh one is, so far as is known, nowhere learnt by Yajurveda Vaidikas. It is, however, more correct than the former. From the statement about the longest and shortest day, viz. 24 and 36 nādīs, Dixit calculates that this applies to North Lat. 34°-46′ (p. 90) which falls about Kandahar and Kashmir and that is the place where Lagadha probably evolved his system.

It may be added that this work still gives the Yajurveda Nakshatra reckoning commencing with Krittikās. It appears that in consequence of this system, Dhanishthā began to be taken as

the first Nakshatra. We have evidence in the Mahābhārata that subsequently owing to precession, Uttararāyana began to take place in Śravana and that Nakshatra was taken as the first (अवणा-दीनि नक्षत्राणि-अनुगीता). This must have been about 400 BC. as the precession over one Nakshatra or 13% at 72 years per degree would take 960 or roughly 1000 years. There was a change again when the Siddhantas were promulgated and Chaitra was taken as the first month and the year counted not from autumnal solstice but from vernal equinox, which then fell in the beginning of Asvini. This was, therefore, taken as the first Nakshatra, a reckoning which is still in vogue. The Vedanga Jyotisha which takes Krittikādi Nakshatras must, therefore, be very old, only a century or so later, if at all, than Laghdha, the author of the system.

Two or three interesting facts which appear from this work may be noted. 1 Names of Nakshatras are shortened by omitting all letters except the last. Thus Sravishthā is indicated by the letter हा: this shows that this work tries to secure the brevity of prose Sūtras. 2 The method of naming persons from their Nakshatra of birth, so prevalent in India, appears to be probably Vedic as it is referred to in this work नक्षत्रदेवता एता प्तासिर्वज्ञकर्मणि। यजमानाय शासज्ञेनीम नक्षत्रज्ञं स्मृत्य (१७). 3 Measures of weight are given in connection with the water-clock, which appears to

have been used from those ancient days, as follows:—50 Palas make an Adhaka and 4 Adhakas make a Drona. One Drona less one Kudava (Kudava of Bhāskara-Dixit p.79) of water flows out in one Nādī of time. The weight Prastha is also mentioned which Dixit finds to be equal to 12½ Palas or 1/4 of an Adhaka. This pala subsequently, from being a measure of weight, became a measure of time, viz. 1/60 of a ghatī or Nādī.

The Atharva Jyotisha is described in detail by S. B. Dixit. As every work relating to this Veda is late, so is also this Jyotisha. It contains 162 verses distributed over 17 heads or प्रकरणs. It contains a description of Muhūrtas with the length of the shadow, cast in each, of a 12 angula rod. It describes Tithis; and Karanas and Yogas are also mentioned further on. The latter two and the mention of Varas or weekdays makes it clear that this work was composed after the Vedic period as we have conceived it. viz. 1400-800 B.C. Nakshatras are also divided astrologically. But that this work is pre-Siddhanta is clear as it makes no mention of the 12 Rāsis of modern Indian Astronomy, borrowed from the Greeks. We might have omitted to notice this work in this Section; but as it claims to be a Vedānga, we have given Dixit's description of it (p. 98-100) to prevent misunderstanding.

VIII YĀSKA'S NIRUKTA WITH NIGHANTU

This Vedānga treats of the derivation of Vedic The words selected for derivation are those which are collected in what is called Nighantu. Yāska is the reputed author of the Nirukta which is extant; but there must have been other works before his: at least there must have been other Acharyas before him who had studied the subject and propounded their views. Some of these are mentioned in the Nirukta, Śākapūṇi and Aupamanyava being constantly mentioned among them. The Nighantu or collection of words prefixed to Yāska's Nirukta is not his work; and must have been in existence before him as a work which had already become sacred, since he calls it, in the very beginning of his work, a Samāmnāya (समान्नाय: समाम्नात:). Prof. Chandramani of Kangdi Vidyapitha thinks that in enunciating this Samāmnāya, Yāska must have made some alterations in it; but if it was already treated as sacred, no orthodox author would have altered it. We will first describe in detail this Nighantu on which Yaska has based his Nirukta.

(1) Nighantu.

Nighantu contains five Adhyāyas or chapters

the first three of which give synonyms and the last two homonyms. The contents of chapter I may be detailed here as follows:—

- 1	Gau and its	synonyms			
		meaning earth	12	words.	
2	\mathbf{Hema}	gold	14	"	
3	${f Ambara}$	sky	16	,,	
4	Svah and other words				
	8	ky and heaven	6	,,	
5	Svedayaḥ	rays	15	,,	
6	f Ataḥ	directions	8	,,	
7	Śyāvī	night	22	"	
8	Vibhāvarī	उषा (dawn)	16	,,	
9	${f Vastoh}$	day	12	,,	
10	\mathbf{A} dri	cloud	30	,,	
11	Śloka	\dots speech	57	,,	
12	\mathbf{Ar} ņa $\dot{\mathbf{p}}$	water	101	,,	
13	Avanayaḥ	rivers	37	,,	
14	Atya	horse	26	,,	
15	Hari (name	of Indra's two			
	horses) &c. giving names of				
	the special animals of ten				
	deities		10	3)	
16	Bhrājate to	shine or burn	11	,,	
17	Jamat	burning	11	,	
-		7 7 . 0 7			

We give these details of the contents of the first chapter as a sample of the contents of these chapters. They show how the Vedic language was copious containing, as it did, a hundred and one words for water. Some words no doubt seem

to have been interpreted in a different sense from the one in which they were used by the Rishis who composed the Vedic hymns. Thus both Asura and Vritra are interpreted as meaning a cloud also. The date of this collection of words seems to be several hundreds of years later than that of the Rigvedic hymns some of which had became unintelligible to the Achāryas of the Vedāṅga period who tried to interpret them. Such words differently interpreted are not, however, many and the wonderful wealth of words in the Vedic language remains undiminished.

Chapter II gives 22 words for act (कर्मन्), 15 for progeny (अपटा), 25 for men (मनुष्प) among which we find strangely enough तुनेशाः, इश्चनः, आपनः, पदनः, अननः and एतः which are, historically speaking, names of Aryan clans of the lunar race; 12 for arm, 22 for finger, 18 for shining, 28 for food, 10 for eating, 28 for strength, 28 for wealth, 9 for cow, 10 for being angry and 11 for anger. A hundred and twenty-two words are catalogued meaning 'to go' and 46 words meaning fight or battle and 33 words meaning to kill.

Chapter III gives 12 words meaning many, 11 little or short, 25 great, 22 a house, 10 to worship, 20 happiness, 16 form or body, 10 good or praiseworthy, 11 intelligence, 6 true, 8 seeing, 44 praising, 24 a wise man, 13 praise and 15 sacrifice. Vishņu, Indu, Prajāpati and Dharma

are included among words meaning sacrifice or यह; the dictum विष्णुते यह: of the Yajurveda perhaps suggested this. Eight words meaning a priest include Bharatas and Kurus. These originally meant people of the two Indo-Aryan solar and lunar races. When this distinction was lost, to later interpreters of Riks the words appeared to mean priests only. 17 words mean to pray and 10 to give. 14 words are given meaning a ditch or well, 14 a thief, 6 concealed, 5 distant, 6 ancient and 6 modern.

These three chapters are called together the Nighanțu Kānda. The fourth chapter is called the Naigama Kānda. It does not give any synonyms, but simply collects together, according to our view, words in the Rigveda which had nearly become obsolete. They are given in three sets, on what principle can not be surmised. The first set gives 62, the second 84. and the third 133 without any specification of their meanings. The order also in which these words are given is almost inexplicable. Probably they are given haphazard and not in the order in which they occur in the Rigveda. The fifth chapter is called Devatākānda and brings together names which are used to indicate different deities. They are arranged in six sets, giving 3, 13, 36, 32, 36 and 31 words respectively. The order here in intelligible. Thus in Khanda 5. we have female deities, 21 in number, given together. Angiras, Atharvan and Bhrigu are ancestors of the Aryans and are included among names of deities naturally enough.

Having given the contents of these vocabularies, we may proceed to explain how the name Nighantu, given to them, arose. Aupamanyava, an ancient Nairukta Achārya, says that the name originally was Nigantus or words explaining (निग-मनात्) and was subsequently changed into Nighantus. We have already shown that the population of middle India is of mixed Aryo-Dravidian race. That the Dravidians have a tendency to aspirate letters is apparent, as even now Dravidians of the South, learned and unlearned, pronounce 'Tarpana' as 'Tharpana' and so on. The Sākala recension of the Rigveda, we have seen, changes d into l, also a Dravidian tendency. Yāska after giving this earlier derivation, however, suggests a second one, viz. that Nighantus means words 'separated', from the root 'han' (changed into ghan). This derivation is more probable, though how the t of 'ghnat' was changed into t remains unexplained.

The author of these collections of words can not, as already stated, be Yāska though he may be the author of the last two chapters as explained later on. The question who their author is has been answered by Prof. Chandramani by the help of a verse in the Mahābhārata (Sāntip. chap.342) in which Vṛishākapi is men-

tioned as the author of Nighantu and his guru's name is given as Prajāpati. It is, however, apparent that these authors are imaginary. Indeed in this chapter of MBh., Vedic works are generally ascribed to divine beings. Vrishākapi is Vishņu and Prajāpati is the father of all gods. Hiraņyagarbha is similarly elsewhere looked upon as the promulgator of Yoga. Where authors were not known, sacred works were ascribed to gods themselves. Kapila alone seems to have been known as a human author, promulgating the Sānkhya philosophy. It seems that the author or authors of these collections of words were not known even in the days of the Mahābhārata (circa. 250 B.C.). In the next chapter (MBh. XII, 343, 71) Yāska is mentioned as praising Vishnu in several sacrifices (नैकयक्षेषु गीतवान्). He is undoubtedly the same as the author of our Nirukta; for he, interpreting various Riks used by sacrificers, must himself have performed many sacrifices. Along with Yaska's name, that of his guru seems to have been mentioned, viz. Sipivishta. Prof. Chandramani looks upon this name as the name of the real guru of Yāska and quotes for support Yāska's reference to his guruat the end of VII 6, 22. But the words used by Yāska here are simply इत्याचार्याः; no name is given here though this may be taken to be a reference to his guru by Yāska (the plural आचार्याः being used in reverence). Sipivishta is the name of Vishņu and we think does not indicate a human teacher. Having thus far discussed Nighaņţu, we proceed to describe in detail Yāska's Nirukta which is based on it.

(2) Nirukta.

The Nirukta of Yāska is divided into two halves called Pürvashatka and Uttarashatka as each half contains six chapters. There are two more chapters added at the end which form the Parisishta or appendix. (We will refer to these chapters by consecutive figures from I to XIV). The chapters are divided into Khandas. or sections which consist of one sentence or mantra each. These Khandas are enumerated. by their beginning words at the end of the chapter in what are called links, on the system of Yajurveda. On enquiring of Rigveda-Vaidikas, we were told that the system assisted correct recitation without Samchara, as the Khandas ended usually with the same word भवति (तस्येषा मनति). But curiously enough, the system is followed even in the Nighantu where there are no occasions for Samchara. The words in the Nighantu have, naturally enough, accents, the same as those in the Rigvedic verses where they are found, sometimes with the accent on the last letter changed. The Nirukta, as now recited at least, has no accents. But in order to break monotony in recitation, the last letter in parts of sentences or after a number of letters is recited like Udātta and is marked in writing with an upward stroke. Of course where Rigvedic mantras are quoted, they are recited with their proper Vedic accents and are marked with their strokes in writing.

Yāska begins his work thus:-"The sacred collection (of Nighantu) has been collected; it is to be commented on " (समाम्नायः समाम्नातः स व्याख्यातव्यः). He first explains the word Nighantu as described before. Yāska then proceeds to divide Vedic words into four kinds, viz. 1 nouns (नाम). 2 verbs (आल्यात), 3 prefixes (उपसर्ग) and 4 particles (निपात). Extremely scientific definitions are given of these four terms, showing the great advance that grammar had made in the time of Yaska. These terms are adopted by Pāṇini who gives no definitions of these and who thus very probably came after Yāska. An interesting difference of opinion among savants is here noted by Yāska as to whether a prefix has or has not a meaning of its own, and several authorities on Nirukta are mentioned here. Thus Sakaṭāyana holds that prefixes (उपसर्गा:) have no meaning, but Gargya holds that they have a meaning when joined to a noun or verb. These prefixes are not enumerated in the Nighantuand Yaska gives them all here in pairs of opposite meanings, such as आ and परा, अभि and प्रति &c. The expletives (निपात), also not given in the Ni-

ghantu, are given by him with their Vedic meanings, illustrated by quotation of Rigvedic mantras, as also their meanings in ordinary Sankrit. Yāska like Paṇini uses the word माषायाम for the latter, which proves that Sanskrit was then a spoken language and that the word Sanskrit had not yet come into existence. Panini uses the wrod इन्द्रि to indicate Vedic language, but Yāska appears to use the word अन्बन्धायं or अधीते 'as recited' I. 4). The chief doctrine of the Nairuktas or etymologists is here enunciated, viz. that all words are derived from roots, a theory which has now been accepted by modern philologists. Three schools of thought existed in those ancient times in connection with the interpretation of Rigvedic verses, viz. Nairuktas, Vaiyākaraņas and Aitihāsikas. Thus, with the Nairuktas, Vritra was a cloud while with the last, as stated before, he was an Asura and son of Tvashtri. A fourth school, mentioned later on, was that of Yājnikas or sacrificers. This introduction by Yāska extending over chapter I is very interesting and deserves to be studied by students of Vedic Sanskrit.

The introduction is continued in chapter II and Yāska first details the method of Nirvachana or derivation, i.e. how words are formed from roots, how letters disappear or change, how Vibhaktis (cases) are altered and how Nirukta recognises changes other than those given by

grammar. That Vedic words are often derived from roots used in ordinary language though they are not themselves in ordinary use or viceversa is shown by illustrations such as उच्च from the Vedic verb उप to burn and इत from इ to flow. These words are used in mu but the roots thereof are not used in the ordinary language. Nay, while some roots survive in the north, they have disappeared elsewhere, though their derivatives are still used there. As an instance of this, Yāska gives যুবুরি (to go) as still used in the Kāmboja country and दाति (to cut) as used among Prāchyas, its derivative বাৰ alone being used among Northerners. It is important to note here that Yāska like Pāṇini speaks of the differences in the spoken language of Easterners and Northerners. They both, however, do not refer to Southerners, which shows that the Aryan land then spread from Kāmboja in the north to Magadha in the east and that Aryans had not yet migrated southwards. This further shows that they both belonged to the central land (मध्यदेश), viz. the Panjab and Kurukshetra. Yāska here derives the word Kamboja (following his practice of giving derivation of interesting words even as they crop up) from कम्बलमोजाः 'using shawls' (precious shawls being produced then as now in Kashmir and other adjoining parts). Thus simple words, as opposed to compounds or derivatives, are to be explained from their meanings and from Vedic roots, current or not current in the spoken language of different parts of the country. In commenting on the latter, Yāska has occasion to mention the word Daṇḍa (दण्ड) and at once proceeds to give its derivation from the root दद to hold. Here occurs the well-known sentence अकृते ददते मणिन् (धारयते मणिन्) which was proverbial in his days (इत्यमिमायते) and which refers to the story of Akrūra and Śrīkrishṇa and the stolen jewel named Syamantaka. Aupamanyava, however, derives दण्ड from दमन.

Having explained further how compound words (समास) should be derived, Yāska in II 3 gives the caution that words unconnected (detached from the verses where they are used) should not be explained. Further, the निवेचन should not be explained to one who does not know grammar or who is actuated by malice on असूया (One is reminded here of the line in Bhagavadgītā न चाशुश्रुषवे बाच्यं न च मां योभ्यस्यति) nor to one who does not know the rules of निर्वेचन. It may, however, be given to an intelligent (though a ৰাজ) or self-restrained Yāska, in II 4, quotes a Vedic mantra. (from where has not been ascertained) in which Vidyā is said to come to a Brahmin for protection, promising that he would find her a treasure if imparted to a holy and intelligent student observing Brahmacharva.

After this long though instructive introduction, from II 5 Yaska takes up the words in the

Nighantu one by one and gives their derivations, quoting the Rigvedic verses where they are used. There are several derivations suggested for every word almost, some of which strike one as fanciful. Indeed one begins to think that a word may be derived from any root if one has enough ingenuity; especially as roots in Sankrit have almost innumerable meanings. Generally, however, words are well explained in the first derivation and Rigvedic verses are well interpreted. Where supporting Vedic verses are quoted, Yaska uses the expression इत्यपि निगमो भनति. Commentators and Prof. Chandramani have generally given the references to these Vedic quotations which are mostly from the Rigveda. Yāska, when quoting from a Brāhmana, uses the words इति ब्राह्मणम् and more often इति विकायते. Historical references are given prefaced by the words अत्रेतिहासमाचक्षते. Here he either gives oral traditions of his days or those embodied in Itihāsa-Purāna, now lost, but preserved in later works like Brihaddevatā. We proceed to give such interesting historical legends as also such interesting derivations given by Yaska as deserve to be given, in the following note.

Interesting statements in Nirukta.

We have in II the story of Devāpi, a brother of S'antanu, hinted at even in a Rigvedic verse. We have next the story told of Viśvāmitra and King Sudāsa coming to

the river Vipāṭ (Bias) and S'atadru (Sutlej). Paṇis are said to be Vaṇiks (merchants) from प्रवृक्ती. This word is usually looked upon as equivalent to Phœnicians who were no doubt merchants and who went to distant lands like the British for trade. But Paṇis are mentioned in the Rigveda as stealers of cows!!! Perhaps they traded as well as stole cows.

Yāska, having finished the words in Adhyāya I of Nighaṇṭu in chapter II, takes up in chapter III words in the second Adhyāya. In deriving the word पुत्र, Yāska notices the law of Indo-Aryan inheritance by which sons alone and not daughters inherit and quotes Manu Svāyañibhuva as authority. Manu, as an ancient lawgiver, is thus known to Yāska; but the verse quoted (अविशेषण पुताणां दायो भवति धमेत:) is not found in the modern Manusmṛiti. Yāska adds that females can be sold, gifted away or abandoned (अगिणां दाविकयातिसगीं विश्वन्ते न पुताणाम्) and quotes many Rigvedic verses here on the topic (III 3-6).

In III 8 असुर and पंच नन are explained. Yāska quotes a Vedic authority for deriving सुर from सु and असुर from असु (सोदेवान मृजतासोर सुरान् इति विद्यायते). But सुर is not a Vedic word at all; it was probably derived by dropping अ from असुर in Purāṇa times. Asura again has a higher sense even in the Rigveda and is properly derived from असु meaning आण. The word पंचजन frequently occurs in the Rigveda; but its meaning had become obscure in the days of Yāska. He gives the interpretations current at the time: गन्धनी: देवा: पितरः असुराः रक्षांसीत्येके। चत्वारो वर्णाः निषादः पञ्चमः इत्योपमन्यवः. Yāska here derives निषाद (not mentioned in निषण्ड) in two ways; निषदने मनति निषण्यमस्मिन्यातकभिति नैक्काः It may be said that Aupamanyava is more reliable and निषाद meant really the people settled on the land, the Aryans being invaders.

In explaining खल meaning संप्राम (battle), Yāska gives the derivation of the words for numerals, which is very interesting though not quite convincing (एक इता संख्या हो हुततरा त्रयस्तीणतमा चत्वारश्रिततमा अष्टावश्रोतेनेव न वननीयानावामा वा दश दस्ता दृष्टार्था वा विश्तितिर्देशतः शतं दशदशतः सहस्रं सहस्वद्युतं नियुतं प्रयुतं तत्तदभ्यस्तमम्बुदो मेघः स यथा महान् बहुर्भविति वर्षस्तदिवाबुदम्. Here he gives the higher digits up to अर्बुद् (III 10). We may next note that the verses quoted in III 30 include one नेमे देवाः &c traced to मेत्रायणी सं. (१११९ वाजपेय मैत्रायणीनाम्) by the commentator in which the word नेम means half, a word found in Persian also with the same meaning. This word is given in the Nighantu.

In beginning chapter IV, Yāska observes "We have given up to now many words having the same meaning. We will give now, in order, words having may meanings (एकार्थमनेकशब्दमिखेतदुक्तम् । अथ यान्यनेकार्थान्येकशब्दानि तान्यनुक्रमिष्यामः) and Vedic expressions the grammatical explanations of which are not known (अनवगतसंस्कारांश्चानिगमान्). This indicates the nature of the Naigama Kāṇḍa. He then takes up the words जहा &c. in the fourth chapter of Nighaṇṭu and quotes the Vedic verses where they occur. In explaining नामि Yāska says अत एव झातीन् सनाभय इत्याचक्षते and derives झाति also from संज्ञान (21), those who are known as relatives. इति च झाझणम् specially mentions a Brāhmaṇa instead of the usual विज्ञायते.

In chapters V and VI are given further homonyms from Adhyāya III of the Nighaṇṭu. It is interesting to note that the Rik सप्तमर्थादाः कवयस्ततञ्चः is unsatisfactorily interpreted by Yāska as referring to the seven recognised sins, viz. १ स्तेयं २ तस्पारोहणं ३ ब्रह्महत्या ४ भूणहत्या ५ सुरापानं ६ दुष्कृतस्य कर्मणः पुनः पुनः सेवा पातकेऽनृतोद्यम् (VI 29). Probably the five great sins enumerated in the Chhāndogya were later increased to seven. Bhrūṇa-

hatyā was now looked upon as a great sin, because it had probably become more common; grown up unmarried girls becoming pregnant were given medicine to cause abortion as greater shame now attached to such lapses and the marriage of such girls became more difficult. In VI 28 S'ākalya, the author of the Rigveda Pada text, is mentioned and his padas criticised as improper. Parāśara, the name of Vasishṭha's son, is derived from प्रशिण्ट्य (बलिष्ट्य जन्ने) in allusion to the story of Vasishṭha's 100 sons being killed by Viśvāmitra and then Vasishṭha's getting a son in old age (प्राचर: अतयातुर्वासिष्ट: इत्याप निगमे भवति). The next noticeable word is कीक्टेषु which is described as an अनायदेश: and derived from कि कत्य, संगद is interpreted as क्रसीदिन and अमंगद as अत्यंतक्रसीदिन. This would show that money-lending flourished even in the days of the Rigvedic hymns.

We now come to the Uttarashaṭka or the second half consisting of six chapters, devoted to the derivation of names of deities given in the fifth Adhyāya of Nighaṇṭu and thence called Devatā Kāṇḍa. Yāska first, in a highly philosophical introduction, explains the nature of Vedic deities and also of the Rigvedic hymns in praise of them. The Upanishadic philosophy was fully developed by his time and Yāska seems to be a thorough Advaitī Vedantist who identifies the world with God or nature and Ātman, and therefore sees nothing wrong in the Riks being divided into three classes-1 परोश्चत, 2 प्रवश्चत and 3 आध्यात्मिक. The परोश्चत verses are in the third person (called प्रथम पुरुष in Sanskrit) and in all Vibhaktis or cases

of nouns (e.g. इन्त्रो दिनि &c.). The अवसक्त verses are in the second person (मध्यम पुरुष) and in Vibhaktis of the pronoun 'thou' (लिमिन्द्र बलादिम &c.). The आध्यातिमक verses are in the first person (उत्तम पुरुष) and in case forms of the pronoun 'I'. Such verses are of course few and they are both in praise as well as in prayer. Sometimes they are uttered in cursing or swearing. It may be noted here that many grammatical terms, viz. अवस पुरुष मध्यम पुरुष, उत्तम पुरुष, विभक्ति, नाम, सर्वनाम &c. had already come into use and become fixed and were used by Pāṇini without definitions as terms well-known.

Yāska then divides the deities also into three classes, viz. those of earth, sky and heaven. fact there are three deities only according to the Nairuktas: Agni, Vāyu and Aditya. They have many different names assigned to them according to their many different functions, arising from their great glory, just as a priest becomes Hotri, Adhvaryu and Brahman according to his different functions. As to their forms three opinions are noted (1) that they have human forms (2) that they have no forms and (3) that they are of both descriptions. Where no deity is apparent in the hymn, it should be taken to be in praise of Prajapati (प्राजापत्य) or of men (नाराशंस). Yāska speaks mostly of Rigveda mantras and mentions Rigveda by the name दाशतयी. which probably indicates that its division into Adhyāvas and Vargas is later than Yāska.

Yāska hereafter enumerates the seven metres and gives the derivation of their names, Gāyatri, Anushṭup &c. The Prayāja and Anuyāja mantras are next noted and these terms appear to be as old as the Rigveda hymns (VII 22). Indeed the cult and method of Vedic sacrifice must be very old.

From Khanda 14 (VII), Yāska takes up the words in the Devatākānda one by one, with the usual words अथातोऽनुक्रमिण्यामः. This Kanda may perhaps have been added by Yaska himself, as the words given therein are arranged on the plan given by him; and deities of the earth are first given, then of the sky and then of heaven. They first include even animals and inanimate objects also, praised in Rigvedic hymns. explaining the various names, Yāska brings together most of the difficult verses in the Rigveda. It almost appears that the six chapters of the latter half of Nirukta are devoted rather to the interpretation of contested Vedic hymns than to the derivation of words, which is the proper subject of Nirukta. There are also noticed differences of opinion among various schools of interpreters, Yājnikas or sacrificers also having their own views. Yāska has thus rendered a great service to the study of the Rigveda; and interpreters of modern days or Bhāshyakāras of the Hindu period are greatly assisted as well as checked by it in their difficult work.

We now proceed to notice the interesting statements in the several chapters of the Uttarashatka. Vanaspati is interpreted as Yūpa by Kātthakya (a new name) and as fire itself by S'ākapūni (VIII 17). The eleven Aprīsūktas are mentioned and those by Vasishtha, Atri, Vadhryaśva and Gritsamada are classed as Nārāśamsa,* those by Medhātithi and Dīrghatamas and the Praishas as उभविष and the remaining by others are regarded as addressed to Tanūnapāt.

In beginning chapter IX Yāska says, "We will hereafter take up the objects on this earth which have received praise and Asva is the foremost of these (अथ यानि पृथिव्यायतनानि सत्त्वानि स्तूर्ति लभन्ते तान्यतोऽतुक्रमिष्या-मस्तेषामश्वः प्रथमगामी सवति). Soma is described in a Rik as Maujavata; it is thus clearly an herb found in the higher Himālayas. Dundubhi is a word derived from the sound it produces, which is very probable. In IX 23 the story of Mudgala, son of Bhrimasva, is given in explaining the word वृष्म. He is said to have conquered king Sübharva and recovered his cows, clearly mentioned here to be one thousand and not a hundred thousand (सूमर्व राजान सहसं गवां मुद्गलः प्रथने जिल्लाय), referring to the verse न्यक्रन्दयञ्जपयन्तम् &c. (The words in the Rik are शतवस्पहसं गवाम which may mean a thousand and one hundred or a thousand, as if they were one hundred.)

The next increasing hymn interpreted is the well-known Nadī sūkta (IX 22) इमं मे गंगे यमुने &c. Yāska seems to look upon S'atadru and Parushnī as independent rivers (परिष्ण स्तोममासेवध्वम्), Asiknī as, tributary of Marudvridhā, and Vitastā of Ārjīkīyā, the tributary rivers being apparently put in the instrumental case. Yāska gives the derivations of these names (द्वाराद्व

^{*} A Nārās'amsa mantra is defined as येन नराः प्रशस्यन्तेः

from श्रदाविणी आञ्च तुनेव दवतीति वा &c.) and also mentions Irāvatī as a later name of Parushnī. Asiknī means not white (अञ्चल - असितमिति वर्णनाम). Marudvridhā is explained as महत एनां वर्धयन्ति and Vitasta as विदग्धा or विश्वहा. He also mentions विपार् (विपाश्-Bias) as another name of Arjikiyā even found in the Rigveda itself in another place. He here quotes a verse relating to the story of Vasishtha wishing to commit suicide by drowning himself, bound hand and foot, in the river; but the river broke his bounds and saved him whence the name निपाश. (पाशा अस्या न्यपाश्यन्त वसिष्ठस्य ग्रम्पेतः। तस्माद्धि-पाळित्यच्यते प्रवेमासीद्रकंजरा. It is clear that this Anushtup verse is some Gatha verse quoted by Yaska from current literature). Curiously enough Yāska gives Sushomā as another name of the Indus, a fact not much known, nor probable; the word being in the instrumental would indicate a tributary of the Vitasta. The word स्रोमा is derived as यदेना प्रमुवन्ति नदाः. These particulars prove that Yaka was well acquainted with the Panjab and its rivers with their ancient and modern names. It is probable that Yaska like Panini was an inhabitant of the Panjab, Takshasilā being a famous place, even in the days of Yaska. The two rivers Vipăt and S'utudri are together mentioned in another hymn, quoted here by Yāska, and are together mentioned as being the most important of the five, though they do not combine. Among words explained hereafter two may be noted: S'unasira is derived as कता (बाय:, जा meaning अन्तरिक्ष) and सीर (आदित्य: सरणात्); and देवी ऊर्जाहुती (IX 42) is interpreted by Yāska as earth and heaven or day and night; but Katthakya interprets it as सर्पं च समा च. which mean crop and years secording to Prof. Chandramani.

Chapter X next takes up the deities of the middle region, beginning with Vāyu. Yāska mentions a

Rishi Nābhāka who, as described in a Rigvedic verse, praised the raining waters called the seven sisters (possibly the seven rivers of the Panjab are referred to). In X 25 Viśvakarman is said to be Prajāpati, also called Dhātā and Vidhātā in the Rik quoted and it is interpreted in three ways as in Upanishads, viz. Adhibhūta, Adhidaivata and Adhyātma senses. And finally the legend is here related that Viśvakarman Bhauvana (a composer of Rigvedic hymns) first sacrificed all creatures and then himself (तत्रेतिहासमाचस्ते विश्वकर्म मोबन: सबमेधे सवीण भ्तानि बहुवांचकार आत्मानमप्यन्ते। तदिमवादिन्येषक्मित्रति स्मा विश्वा भुवनानि बहुव्यं). Asura is derived here from अस meaning प्रज्ञा and Tvastri is the name of this Asura (X 34).

Chapter XI takes up the words in the 5th section of Nighantu, Devatā-Kānda, beginning with S'yena. These deities belong to the middle region above Vayu. S'yena (eagle) is interpreted as Moon and Chandramas is derived as चन्द्रो माता चान्द्रं मानमस्येति वा (XI 5). In explaining 474 (XI 6), Yaska gives the derivation proposed by Maudgalya named S'atabalāksha, an author not yet mentioned. In the middle region along with सोम or चन्द्र are placed Maruts, Rudras, Ribbus and Pitris and Yaska begins section 13 with the words अथातो सध्यस्थाना देवगणास्तेषां महतः प्रथममागामिना मवन्ति. Ribhus are explained in two ways, one of them a son of Sudhanvan and rays of the sun; in support of the first meaning Yaska savs कम् विन्वा वाज इति सधन्वन आक्रिरसस्य त्रयः पुत्रा बभुवस्तेषां प्रथमोत्तमाभ्यां बहुवित्रगमा भवन्ति न मध्यमेन, ऋगोध बहुबचनेन बहुनि दशतयीषु स्कानि भवन्ति. This is a historical remark worth noticing. Commencing section 22, Yaska save अथाती मध्यस्थानाः क्रियः and takes up Aditi and other female deities of the sky.

In chapter XII Yaska explains the names of the deities of heaven beginning with Asvins, who are thus not

deities of the sky. The question what these dual deities are even then puzzled the Nairuktas as they puzzle Vedic scholars to-day. "Who are the Aśvins"? asks Yāska, "Some take them to be चावापृथिवी, some अहोरात्र, some स्याचन्द्रमसो and others two meritorious kings". Yāska derives the name from अश्वात सर्वे रसेन; but Aurṇavābha derives the name form अश्वात सर्वे

The Parisishta charters XIII and XIV are clearly later additions as they take other words for explanation than those given in Nighantu. Chapter XIII is very short and explains some riddle Riks such as the one containing the strange words जर्भरी तुर्भरीत &c. and thus may be an earlier addition. Chapter XIV takes up subjects wholly foreign to Nirukta and propounds the philosophy of the Upanishads and the Bhagavadgītā, which it actually quotes (चतुर्श्वगसद्साणि &c.). Sankhya and Yoga are also referred to and the ideas of महानात्मा and भूतप्रकृति, words occurring in the Gītā also, are mentioned. Then a new list of words taken for derivation is given (XIV 11), introduced by the usual words अधातमनो महतः प्रथमं भूतनामान्यनुक्रमिष्यामः at the end of 10. The new words thus probably denote Atman of the Sankhya philosophy. In 31 we have a reference to the custom of marrying the daughter of a maternal uncle in the verse मात्र स्थेव योषा मागस्ते पैत वसेयी वपामिव।. Whence this verse is taken can not be stated as no reference is given even by Prof. Chandramani. In 35 the Rik इरम्बर यजारहे &c. is explained, ज्यम्बर being interpreted as Rudra. This appears to be a riddle verse like चत्वारि शङ्गा त्रयोऽस्य पादाः &c. describing Agni.

This added chapter ends with the significant line नमो नहाणे नमो महते भूताय नमः पारस्कराय नमो यास्काय नहाज्ञक्रमसीय. The mention of Paraskara makes this addition to be the work of a pupil of his. If he is taken to be the author of the Grihyasūtra of the White Yajurveda, this addition falls entirely outside the Vedic period. Why a White Yajurvedic author makes an addition to this Rigvedic work is then inexplicable.

We may lastly state that there are two old commentators on Yāska's Nirukta, viz. Durgāchārya and Sāyana. From Durgāchārya's commentory, it appears that there are a few interpolated sentences in Nirukta, according to Prof. Chandramani, which is strange when we consider how rigidly Vaidika Brahmins have preserved the texts of Vedic works. That Yaska himself in enunciating the Nighantu words may have altered a reading or added words and even added the Adhyaya V is possible from the fact that he does not consider the Padapātha of S'ākalya as unalterable and proposes a new patha, viz. वायो instead of वा यो of S'akalya (X 29). His view of the sacredness of the Nighantu may not have been as strong as that of the Vaidika Brahmins now.

IX GRAMMAR AND PANINI'S ASHTĀDHYĀYĪ

The last Vedānga is grammar and the work recognised by Vaidikas on this subject is the Ashtādhyāyī of Pāṇini. He comes also last in the Vedic period. Grammar had been studied before him for several centuries and authors had also written on the subject. Padapāthas show that their authors had not only made investigations as to pronunciation and sandhi but already knew a good deal about the grammatical analysis of words, as they separate the parts of compounds and the prefixes of verbs as well as certain suffixes and terminations of nouns' (Macd. p. 267). Yāska had already distinguished the four parts of speech नामाख्यातोषसर्गनिपाताः, terms which Pānini uses, and there were many grammarians even before the days of Yāska such as Śākatāyana and Gārgya. "Even the Brāhmanas bear evidence of linguistic investigations, for they mention various grammatical terms such as अक्षर, वर्ण, बचन and विभक्ति (Macd. p. 268)", terms which Pāṇini uses without definition and "such terms are found more in Upanishads and Aranyakas." But all these investigations were taken to their highest development by Panini who formulated his

system with such ingenious devices and such all-embracing vision that his work supplanted all previous grammars and became the basis of most grammatical writings in later times. It was thus properly recognised as the last word on the subject and accepted as a Vedānga by all Vedic reciters. Pāṇini's work, however, does not treat of Vedic language only, but also and mainly of the spoken language of his time like Pingala's work which treats of the Vedic and later metres.

Most persons will agree with Prof. Belvalkar that the Aindra school of grammar is not pre-Pāṇinian. Indeed when the Brāhmaṇas speak of Indra separating padas, their authors, as usual, think of gods as doing anything and everything. Other schools no doubt existed from before Pāṇini like Āpiśala, Kāśakritsna, Gārgya, Kāṣyapa and Gālava and Pāṇini refers to them in his work. These authors had actually written works named above as also Śākaṭāyana, and Śākalya. Prof. Belvalkar even mentions extracts from their works in the writings of later grammarians. Most probably, all these works had disappeared by the time of सिदान्तकोष्ट्री.

Pāṇini lived about 900 s. c., as will be shown in a separate note and his work closes the Vedic period. Even Macdonell says, "It may be taken the definite starting point of the Post-Vedic age" (p. 268) though our limits for the Vedic age

differ from those of Macdonell and other European scholars. Pānini's birth-place, according to tradition, was Salātura in Gāndhāra and he is, therefore, often called Salāturīys. He was a Vātsa Bhārgava (see note on gotras). His mother's name was दाक्षी, a gotra-name; and he is called दाक्षीपुत in Pingala, as already noted. His father's name is not known. Pāṇini is not a gotra-name like Yāska, a word specially explained in IV 3,194. He must have studied at Takshasila or in the Sarasvatī region, the home of Vedic culture in his days. But he must have travelled far and wide as he notices the peculiarities of the spoken language of Easterners as well as of Northerners. Pānini is believed to have been killed, while passing through a forest, by a lion ignorant of the great grammatical genius and services of his victim, as a poet humorously remarks.

The grammar of Pāṇini is called Ashṭā-dhyāyī as it is divided into eight chapters. It is preceded by a list of letters in groups in which they are arranged differently from the arrangement according to their sthāna. This arrangement was revealed to him, so it is believed, by S'iva and hence these sūtras are called Māhe-svara. It is an ingenious arrangement by which brevity is secured in the enuenciation of grammatical rules. Separate groups are made of letters which are subject to the same changes in the formation of words. The arrangement

discloses a deep study of the natural evolution of sounds in words, besides evidencing great ingenuity in securing brevity; and it has been naturally looked upon as divinely inspired.

As stated above, Pānini gives mainly the grammar of the Sanskrit language as it was spoken in his time; but he does not use the word Sanskrit* for it, but simply भाषा. The Aryan settlements in India then extended from Kabul to Kaśi-Videha and naturally there were provincial differences. These were mainly three, the centres of Aryan culture being also three, viz. 1 Kāśī-Videha, 2 Kurukshetra and 3 Kekaya-Madra. Pāṇini naturally thus gives two main differences of language, viz of Prāchām or Easterners and of Udichām or Northerners, the middle Kuruskhetra being the home of the central language. Such differences exist in every living language. We have High German and Low German, English and Welsh, Eastern and Western Hindi and Marathi of Paithan, Poona and Phonda (eastern, central and southern). But such differences are very few and minor and hence there is one grammar for German, English, Hindi or Marathi. So does Pāṇini give one grammar for Bhāshā, noticing provincial peculiarities. He also notes the peculia-

^{*}The word Sanskrit in IV, 4, 3 means cooked, asen in the sans cooked, asen in the sans cooked, asen in the sans cooked, as a sans cooked,

rities of the ancient Vedic language, using several words for it as explained in a note, viz. मंत्रे, छन्दिसे, निगमे and once or twice आहे. Pāṇini seems to be conscious of the greatness of his work which he must have enunciated, after having taught grammar as professor for several years and hence in his sūtras he uses the word उपदेश (teaching) for his own work.

In the first chapter, Pānini gives the definitions of terms (संज्ञा) newly adopted by him as well as of some old ones. In the four quarters (पाद) of this chapter (each chapter being divided into quarters), there are altogether 351 sūtras (75,73, 93, 110). The second chapter treats of samāsas. the old names तत्पुरुष, बहुनीहि, द्वन्द्व and अव्ययीमान being used by him. (कर्मधारय and द्विग्र are also mentioned but as varieties of तल्हा). The number of sutras in this chapter is 261 (72+37+73+85). In the third quarter verbal terminations are given from sutra 58 and this pada rather queerly hereafter goes into the dropping (নুক) of Pratyayas to be given These sutras, e.g. यस्कादिम्या गोत्रे, should hereafter. have properly come after giving the Pratyayas themselves. In chapter III, forms and derivatives of verbs are treated. The names az, faz &c. are of tense-pratyayas and are newly invented by Pānini for brevity, the tenses before him being probably named नर्तमान, भूत and मनिष्यत्, words often used by Panini also as बतेयाने कर or स्तेडिंग दर्गनी (III 3, 32). The chapter contains in all 631

(150+188+176+117) sūtras: The fourth and fifth chapters treat of formations of nouns, the stem of which is called प्रात्तेषांदेक and of verbs, the stem being designated बाद्ध. For forming the feminine, many sūtras are given in IV, and then gotra or family names are noted as also names of kings formed from peoples or countries. These sūtras supply interesting imformation about the geography of India in the days of Pāṇini which we will collect in a note. In 3 and 4 of IV various other derivatives from nouns are given including religious and literary terms. The number of sūtras in IV is 635 (178+145+168+144) and in V, 555 (136+140+119+160).

In chapter VI, the changes of vowels in सन्धि are given and also their accents उदात, अनुदात and स्वरित or middle, lower and higher; as also changes of letters in noun and verb forms. The rules relate to both Vedic and spoken languages and are very minute. Some changes are, however, too irregular and even Pāṇini contents himself by saying पूरोदरादि यथोपदिष्टम् (3, 09). These obey no rules. The number of sūtras is 736-(223+199+139+175).

In chapter VII, Pāṇini gives rules for changes to be made in his own pratyayas when applied to words. This device is adopted both for brevity as for other purposes. Thus \$\pi_1, \bar{\pi_1}, \bar{\pi_2}, \bar{\pi_3}, \bar{\pi_4}, \bar{\pi_4}, \bar{\pi_4}, \bar{\pi_4}, \bar{\pi_4}, \bar{\pi_5}.

Next are given changes in nouns and verter box

fore pratyayas. The interesting इंडागम in verbs is then detailed and next inflectional and conjugational forms are explained. The inflexions of pronouns, especially of युष्मत् and अस्मत्, being too strong for generalisation, take many sūtras and are always a difficult affair (note केचिद्रमा युष्मदस्मिक्तया-याम्). Many irregular forms in Vedic language are given like इङ्गीन and पीरिजीन and even a Rik verse is quoted (यज्ञध्येनमिति 1, 43). A new Āchārya, Bharadvāja, is quoted in 2,66. The number of sūtras in this chapter is 438 (103+118+120+97).

Chapter VIII begins with the changes in words when repeated and the ga of vowels in invocation. In Sanskrit we have besides short and long, the जुत or treble, usually used in spoken languages in vocatives. है हे प्रयोगे हैहयो: (2,85) brings home to us how Sanskrit was then a spoken language.* हे३ देवदत्त &c- as also विमाषा प्रष्टप्रतिवचने हे: (2,13) instanced by अकार्ष हि ? or अकार्ष हि are very interesting. प्रत्यमिवादेऽहाहे (2,83) shows that even Śūdras spoke in Sanskrit and were answered in Sanskrit. 'अभिवादये तुषजकोऽइम्' says the Śūdra and the Arya answers 'आयुष्मानेधि तुषजक'. This brings out how Pāṇini properly uses the word माना. From quarter 2 to the end of the chapter, the sūtras are 1947 अहिद; i.e. they give changes which are not again. subject to the operation of rules given previously.

^{*} है हे प्राचास shows that even in uttering है, हे the Easterners save a different stress.

This is the most ingenious device used by Pāṇini for excluding forms from further changes. Here have been mentioned all Adesas such as प्रान् त् प्र for न्, प्र

This chapter contains 369 (74+108+119+68) sūtras. Thus the total of sūtras in Pāṇini's Ashṭādhyāyī is 3983 (351+268+631+635+555+736+438+269) according to Kāśikā.

Pāṇini gives roots in his sūtras in different forms; but they all indicate some special process upon them and these roots are given in the আর্থান্ত by Pāṇini with the same forms (with হ্ল হ, ড, নু&c.) except the form ending in নি which is used in sūtras for the first time, indicating a special prakriyā. In the same way, all other 'it's in his sūtras have a meaning, viz. some special grammatical process. This artifice seems to be older than Pāṇini inasumch as the old ড্যাইন্সৈ, which he includes in his work, were according to tradition among Indian grammarians, laid down by Śākaṭāyana*

^{*} Prof. Belvalkar thinks that the उपादिस्त्र are Pāṇini's but he admits that some of these sūtras are opposed to the Astādhyāyi. Secondly the terms हस्त, दोई &c are common because they are Pre-Pāṇinian. Pāṇini generally accepts them and hence he quotes them in his sūtra उपादयो बहुदस् which clearly indicates, to our mind, the priority of these Sūtras.

(बस्टस्य तोक्स् of Patanjali). As pointed out by M.M. Vasudeva Śāstri Abhyankar, they form an adjunct of the grammar of Pāṇini; but Pāṇini looks upon them as not always applicable, since he uses the word बहुलम् (III 3, 1 उणादयो बहुलम्).

Pānini callects words similar in any treatment in what are called ganas, indicating the gana by the first word in it with आदि added as यस्कादिम्या गोत्रे (II 4, 63). These gaps must have been compiled by Pāṇini himself and the गणपाउ now recited is believed to be Pānini's work. But these ganas must have been extended from time to time: for under the above sūtra gana, Kāśikā gives क्लीटक which could not have been known to Pānini as stated already. Generally, however, these lists may be quoted as his. They are sometimes treated as incomplete by later authors and are called आकृतिगणाः. This is doubtful; for when Pānini wishes to indicate that there are many such words, he leaves the matter indefinite and uses words like अन्येम्योऽपि दश्यते (III 2, 75). It may, however, be urged on the other side that Pānini himself looks upon these ganas as not exhaustive. Where the list was exhaustive, he gives it fully in his sutras though they become long, e. g. III 2, 142; VIII 3, 87 or 4, 17 &c.

Though Pānini took the method of using इत्ड from the उणाणित्वाड, the Māheśvara sūtra arrangement of letters appears to be his, the most ingenious arrangement for securing brevity as stated already. The Pratyayas given for inflexions and conjugations are also his in the form they are given; though the terms आधातुक and सार्वातुक used for verbal Pratyayas are not his. They are too long to be his and Indian grammarians hold that they are older terms which Pāṇini could not but take up being too well-known. Indeed "brevity ought not to be looked for in Pratyaya names" is a maxim of Indian grammarians. The term भाषात्रक्ष is another such word (VII 1, 68).

The Sanskrit language having ceased to be spoken since Pāṇini, there are several words used in ordinary parlance in Pāṇini's sūtras which can not now be understood. Even M. M. Vasudevas Śastri Abhyankar can not say what चिहण is in IV 2,125 (चिहणबन्धः).

Pāṇinis work is not without interpolations as even Indian grammarians admit. Some sūtras which were originally Vārtikas of Vararuchi, have crept in in the progress of time. Examples of this given by M. M. Abhyankar Sastri are (1) इदस्य प्राथम (IV 1.166) on which Kāśikā remarks "इदस्य ought to be in the nominative but विचित्रा प्रस्य करि:" This remark is undeserved if we remember that this was not Pāṇinis's sūtra originally and इदस्य प्रसंका would be inconceivable for Pāṇini. (2) Another example given is चरणादमीन्त्राययो: . There are a few sūtras which have two readings as in आहोऽनुनाविक करियों के परिवार करिया है के करिया करिया

had accents is undoubted; and we have elsewhere stated that the Sanskrit spoken in Pāṇini's time had accents as appears clear from several sūtras of his. These accents in Pānini have now been lost and Vaidikas recite his sūtras in एक প্রুतি. Yāska's Nirukta also must have had accents; but they too are lost and Vaidikas recite it also in एকখুৱি with a few variations as previously noted The question whether Pānini's sūtras had accents or not is disputed among Indian grammarians and M. M. Vasudevaśastri Abhyankar mentions the controversy as त्रेस्वर्ग controversy. But from the sutra आदेच उपदेशे शिति taken in अनुदात्तस्य चर्दपधस्यान्यतर-स्याम् (VI 1, 59) it is clear that Pāṇini in his उपदेश of धातुपार had given accents. If even in his धातुपार there were accents, his sūtras must have had them. Indeed if Sanskrit was a spoken language of the people generally at the time, accents must actually have been in use as in English. विभाषा भाषा-याम् explicitly mentions accents in the spoken language (VI 1,181.). The question why and when accents were lost is a difficult though interesting one and will be discussed in a note.

Another important change which may be noted is that Pāṇini's sūtras had here and there letters which were to be pronounced nasal (अनुनासिक) and which are not now so pronounced by reciters or indicated by writers in written works. This change took place long before Bhaṭṭoji Dīkshita who clearly states that the original nasals

have now to be inferred from the Kārya. Thus in VII 1,1 the य, व mentioned are अनुनासिक and when the Kāsikā cites the sūtra वास्ट्रेवार्ज्ञनाम्यां बुन् for व, it must be noted that बुन् was written and pronounce d originally as बुँन्. Similarly (भुजिमृह्म्यां) युक्त्युकों was युँक्त्युँकों. This अनुनासिक was used by Pāṇini in Pratyayas with a purpose and also in धानुपाठ. Like accent, this nasal was later lost, being probably troubleso-me both in writing and reciting.

Note I-Panini's use of certain words.

Pānini always uses the word भाषायाम when speaking of the spoken language, later called Sanskrit, e.g. VI 3, 20. When referring to the Vedic language, he uses three words मन्त्रे. इन्दिस and निगमे. When he uses मन्त्रे as in III 2, 71, VI 1, 151 or VI 4 53, he refers to the Samhitas or the metrical portion of the Vedas. When he uses छन्द्रसि, he refers to both Samhitā and Brāhmana. The word छन्दस means metre and it is difficult to see how it can apply to the prose portion of the Vedas, though in इन्दोनाह्मणानि च तद्विषयाणि (IV 2, 66), it seems that Chhandas does not include Brahmanas. In जुद्यापित च च्छन्दिस followed by नित्यं मंत्रे, the word मंत्रे is opposed to इन्द्रि including both, a sense usually attached to it. Thus VI 1, 150 शीर्ष छन्दिस refers to शीवणी हि सोमं क्रींतं इरन्ति - a Brāhmana quotation. So also वत्सरान्ताच्छन्दसि (V 1, 91) refers to इद्रल्सीय: &c. appearing in Brahmanas. The word इन्द्रस is an old word appearing even in Zend and in Purushasukta (इन्दांसि जिल्ले तरमात), where it means Rigvedic verses generally (see Sec. I, p. 175.) When the Brāhmaṇas were included in revelation (मंत्रवाद्याणयोविदनामधेयम् Ap.) the word was extended in its meaning. Mantra retained its meaning viz. the metrical portion of the Vedas. The third word निगम is a new word, used by Yāska for Veda generally, and is equivalent to इन्दिस, Pāṇini also uses it in the same sense (e. g. VI 3, 113 साद्ये सादया सादिति निगम. Kāśikā quotes सादये समन्तात् and साद्दा साद्दे सादया सादिति निगम. Kāśikā quotes सादये समन्तात् and साद्दा साद्दे सादया सादिति निगम. Kāśikā quotes सादये समन्तात् and साद्दा साद्दा सादिति निगम. Kāśikā veda as Yajushi in यज्ञपुर: (VI 1, 93).

When Panini uses वा or अन्यतास्याम् or बहुलम्, he gives optional forms generally used. But where he mentions the name of an Acharya, he seems, we think, to indicate that the optional form is used by that Acharya and his followers, but is not acceptable to him. Thus he mentions many Acharyas by name such as आपिशलि, स्कोटायन. शाकल्य, चाकवर्मण (VI 1, 130), काश्यप (1, 2, 25) &c. Modern grammarians, however, look upon the mention of an Acharya as showing মুলা (sec. under V 3, 94). But historically speaking such un was unnecessary; and if Pānini really honoured them and accepted their views, he would have given one form only or at best used at. The sutra बा सुप्यापिशले: (VI 1, 92) gives वा along with the name of आपिशिक and this indicates that the optional form is taught by आपिशिल and not by Pāṇini. In one sūtra he uses the word एव (उड् शाकटायनस्येव III 4, 111). These other Achāryas seem to have actually written works which were studied even later than Pānini, as in one place students and followers of আপিয়ান্তি are spoken of along with these of Pāṇini by the Kāśikā; आपिश्तला: पाणिनीया: or आपिशलपाणिनीये शास्त्र (VI 2, 36). The word आचार्या: in VIII 3, 52, as stated before, however, stands for Pānini's guru and here the condition of the preceding vowel being long is acceptable to Pānini. We can not mean here by आचार्याः other teachers as others (अन्ये) would have sufficed, in that case one letter being less also. Who the Acharya of Pāṇini was is not mentioned anywhere.

Commentators similary interpret प्राचाम् and उदीचाम as indicating merely optional forms. But historically speaking, one must restrict such forms to their province only. Pānini meant that the particular form would be correct when used by people in that province. Thus in III 1, 90 (क्रिक्रिजो: प्राची स्थ-परस्मैपदं च।) he means to say that कुच्यति would be correct when used in the eastern country, but in other provinces क्रुप्ते would be correct. Thus as the mention of the name of an Achārya would confine the form to his followers (a restriction by persons), the mention of प्राचा or उदीचाम would confine the form to the province (a restriction by place). They are used in III 4, 18 and 19 in direct opposition. Generally acceptable optional forms are shown by वा or अन्यत्रस्याम्. Of course these remarks apply to the time of Panini only.

Note 2- Accents.

We were surprised to find on reading the Ashtā-dhyāyī carefully, that the Bhäshā spoken in the days of Pāṇini had accents, i. e., the svaras were pronounced उदात, अनुदात्त and स्वित. Even noted S'āstris who study Vyākaraṇa did not, we found, seem to suspect this. Probably the स्वराक्तिया in Pāṇini is usually neglected as applicable to Vedic Samhitās and not the language they use. That the spoken language of Pāṇini's days had accents is proved by many sūtras given in Chapter I, where these are defined and in Chapter VI, especially with regard to samāsas, as to how the svaras of the compo-

nent words are changed. Nouns and verbs have svarasand even the pratyayas added to them in inflexion and conjugation and these are indicated by Pāṇini by certain letters (প্রৰাষ) added to the pratyayas. We have, therefore, to abandon cur view expressed in Section I at page 55 that "Sanskrit lost accents in the days of the Brāhmaṇas".

Why did the Aitareya Brāhmana then lose svaras is a riddle. The S'atapatha and the Taittiriya down to its Aranyaka and Upanishads, have svaras still. The riddle may be solved from the following sutras of Panini. Sutra I 2, 34 lays down एकश्रुति recitation for even mantras in यज्ञकर्म, but not for जप, न्यूंख and सामन्. Samans had to be sung at sacrifices with their svaras. as also the न्यंस (ओ lengthened in Rik verses). It appears that, in Brahmana and later times, the svaras of words changed, as changes slowly take place in every spoken language even in grammar. This difference in accents in Vedic hymns and the spoken language became Gradually, tha Rigveda Samhita and troublesome. Brāhmana began to be recited without svaras at sacrificse and Panini had to sanction this proceeding optionally by his sutra विभाषा छन्दिस (I 2, 36) but not for the spoken language. The Kāśikā comment on this sūtra is noticeable. इन्दिस निषये एकश्रुतिभेवति पक्षान्तरे त्रस्वयेम् । व्यव-रियतविकल्पोऽयमिति केचित् । वेदे मन्त्रदले नित्यं त्रस्वयेम् । बाह्मणदले नित्य-मैकश्रत्यम." This is thought by some to be an added sentence. Any how, historically this means that in. Pāṇini's time, Rigvedic recitation was at option with or without svaras; but at the time of the Kāśikā or somewhat later (600 to 900 A.D.) it was a settled pratice with Rigvedins to recite the Samhita with accents and the Brāhmaņas without them, as the practice now is. The Yajurvedins seem to have stuck to their ancient practice of reciting both Samhita and Brahmans with accents. We have to admit that the argument we gave in Section II that these Yajurveda Brāhmaṇas were older than Rigveda-Brāhmaṇas because they have accents and the latter not, therefore fails. Other arguments given in Section II, however, prove their priority.

Naturally even Pānini's sūtras had accents (see स्वरि-तेनाधिकार: I 3, 4) and his Dhātupātha also (I 3, 12); but they are now recited and written without accents. The whole classical literature again is found written without accents. When Sanskrit lost accents is another riddle. M. M. Väsudeva S'ästri Abhyankar thinks that accents existed in the days of Kātyāyana and even Patanjali. It seems, however, that these authors detail accents academically and not from spoken language. For Sanskrit was not a spoken language of the people in their time. A spoken language alone can have accents, not, a dead one, used only by Pandits in writing or in academic discussion. That Sanskrit had accents in Pānini's days is, as said before, cartain; the sutra एকপ্লবি-देरात्संबद्धी (I 2, 33) clealy shows this. 'When you call out a name from a distance, you have एकश्रुति, but not elsewhere or when called from near. Again from विमाषा इन्द्रिस Kāśikā draws the inference भाषायामपि एकश्रुतिर्विमाणा सबतीातीसिद्धम् ; but this is not supportable. For विभाषा भाषायाम (VI, 1, 181) which clearly proves the use of accents in भाषा allows option, only for भिः in षट्त्रिचतुम्धेः. We cannot, therefore, hold that accents were optional in the language spoken in the days of Panini.

 king) is differently accented from the same word meaning a king's Brahmin.

Note 3-Literature mentioned in Panini

Several sūtras of Pānini, especially those commencing with तेन प्रोत्तम (IV 3, 101), give us an idea of the literature current in the days of Panini. That he knew all the four Veda Sambitas is certain from hismentioning Riks, Sāmans, Vājasanevin, Tittiri, and Atharvanika. VII. 4, 38 mentions यजिष काउके and VIII 3.104 यज्ञ प्येकेषाम. All this literature he includes in the word Chhandas, but he sometimes mentions Riks, Yajuh and Samans also. He uses the word FF in connection with Samans and thus we feel certain that the theory of the divine origin of the Vedic hymns was already established. He even looks upon the Brahmanas as revealed, since he appears to use the word श्रोत्त as higher than कृत used in कृते प्रत्थे (IV 3,116). Tittiri. Varatantu, Khandika and Ukha (mentioned in IV 3 102) probably indicate their recensions of the Black Yajurveda Samhita. The list can not be exhaustive but Varatantu is a name not found in च्राव्यह. He seems to be a Samhitā proclaimer (সৰকা), along with Tittiri. His name is not found in the list of Rishis given in Sec. I but he is mentioned even by Kālidāsa as a Vedic teacher (कीत्सः प्रेपेदे वरतन्त्र शिष्यः). These are not Rishis in the strict sense i.e. मंत्रदृष्ट्र, as seems clear from the next sutra (103) in which काश्यप and कौशिक are mentioned as Rishis, they being no doubt composers of individual sūktas and not proclaimers of Samhitas. Perhaps besides S'ākala and Bāshkala, there may have, been Kasyapa and Kausika Rigveda Samhitas. The

Kāśikā mentions a Kalpa of Kāśyapa, but a Ŗishi can not, we think, be the author of a Kalpa. The next sutra mentions the pupils of Kalapin and Vaisampāyana as proclaimers or publishers of works. Their names are not given but the Kāśikā gives them as १ हरिदु, २ छगली, ३ तुम्बुर and ४ उलप for Kalapin and १ आलम्ब, २ पलङ्ग, ३ कमल, ४ ऋचाम, ५ आहणि, ६ ताण्डच, ७ श्यामा-यन < कर and ९ कलापि for Vaisampayana. These publishers of Yajuh Samhitas are mostly unknown except हरिद्र, छगली, कंठ and कलापिन mentioned in चरणध्यहर (Tāndva here must be different from the Tāndya of Samavedad; being a gotra-name this is quite possible). Then in the next sutra (105), we have the mention of Brāhmanas and Kalpas and their proclaimers, both old and new (पुराणश्रोत्तिष् बाह्मणकरपेषु IV 3,105). Thus Pānini looks upon even old Kalpas as प्रोक्त or proclaimed As old Brahmanas, the Kāśikā instances माइनि, शाट्यायनि and एनंशि (the first two are now lost) and old Kulpas वेनी and आरुणवराजी (both not extant now).

The next sutra शीनकादिभ्य च्छन्दिस (IV 3,106) mentions other authors of Brāhmanas (इन्द्रि) as also of other works by them which were not considered inspired. Thus shaffs would mean a S'aunaka Brahmana but शोनकीय would be proper for a शिक्षा work (Kāśikā), or कतशांति for a Brahmana but कदशादीय for other work (not known). The list of authors under शीनकादि contains 17 names of which बाजसनेय and तलबकार may be mentioned, as their Brahmanas are extant; but those of others are lost. The next sutra कठचरकाम्यांछक (IV 5,107) states that the Brahmanas of az and चरक go by the same name while that by कलापिन is कालाप (कलापिनोडण् IV 3,108) but that by जगिलन is जागेलय (जगिलनो दिशुक् IV. 3,109). Katha, Charaka, Kalapin and Chhagaleya are names mentioned in चरणव्यूह; but Katha-Kalapa Samhita alone survives. Brahmanas are called विशानि and चलारिशानि from their 30 or 40 chapters (V 1,62). This detailed survey would show how much Vedic literature known to Pānini has now been lost.

Similarly the Sūtra literature known to Pāṇini must also have been extensive. As already stated, Sūtras are mentioned even in Upanishads. In the next sūtra (IV 3,110), Pāṇini mentions a भिसून्त्र by Pārāśarya and a नरस्त्र by S'ilāli. A code for Bhikshus or Saṃyāsins and a code for actors shows that the Bhikshus even then had separate disciplinary rules and that dramas were acted even then under systematic directions. There were opposing schools also, as in the next sūtra two other authors on the same two subjects are mentioned, viz. Karmanda and Kṛiśāśvin. The followers of the first would be पाराशिंगो भिस्ता: and शेलान्छनी नरा:; but of the latter कमीन्दन: and क्रशिश्वन: while their works would be called पाराशर and शेलान्ड and कार्यन्द and क्रशिश्व.

A third kind of works is treated by Pānini separaely as उपज्ञात (neither प्रोक्त nor जूत) which Kāśikā defines as विनोपदेशेन ज्ञातम (IV 8,115); the example given is पाणिन्य-पञ्च व्याकरण which Pāṇini himself could not have given. Probably Pāṇini means by उपज्ञात works which though not revealed are extraordinary or original. The other instances given by the Kāśikā are আণিয়ত মুহতাঘৰ and काशकृत्तन प्रकरण. What these works are can not be stated as they no longer exist. There were many authors on grammar as already stated, viz. शाकटायन, चाकायण, शाकल्य and others and their works are lost. Finally in the next sutra, Pānini mentions ordinary works composed by other authors (कृते प्रन्थे IV 3, 116). Their being called मन्य probably indicates that भूजे leaves written on were strung together as books. The instances given by the Kāśikā here can not have been before Pāṇini ; for वारच्या: आका: must be a later work, if Vararuchi is the same as the author of Vārtikas. We do not and cannot now know what other authors had written works and on what subjects before the time of Pāṇini, except Yāska; and his work probably was an उपज्ञात work and not इत according to Pāṇini. Works named from the number of Adhyāyas are instanced by Kāśikā as त्रिकं काश्करत्वम &c.

In IV 2, 64 we are told that those who study the प्रोक्त works are called by the same name, e.g. आपिशलाः, पाणिनीयाः &c. The next sutra states the same with regard to Sutras with names ending in ka (सूत्राञ्च कोपधात 65). Here we have names of Sutras referred to, but not in the sutra; the Kāśikā instances अष्टकाः पाणिनीयाः, दशका वेय्याप्रयाः, त्रिकाः काशकृरनाः. On what subject these works were can not now be known. In the next sutra the same is stated of छन्दोबाह्मणानि. Here Chhandas is differentiated from Brāhmaṇa and the examples given in Kāśikā are, of the first कहाः, मोदाः, पेप्पलादाः, आचिपिनः, वाजसनेथिनः and of the latter, ताण्डिनः, माह्रविनः, शाव्यायनिनः, and ऐतरियणः.

Other kinds of works mentioned are आस्यान (VI 2, 103) and the instances given by the Kāśikā are पूर्वराम-कम् and पूर्वरायातम्. Such Ākyānas were put in the Rāmā-yaṇa and the Mahābhārata in their new editions later on. The Rāmāyaṇa was originally रामास्यान by Vālmiki, as mentioned in the Vanaparva of the Mahābhārata.

Pāṇini must have had before him some astronomical works. Dixit (p. 103) points out that Pāṇini uses the words वर्ष (V 1, 88, VII 3, 16), हायन (IV 1, 27, V 1, 130) and नाडी (V 4, 159). He mentions the Nakshatra पुष्य alias सिध्य (III 1, 116), इन्द्रसि पुनर्वसारेकवचनम् । विशा-स्योध (I 2, 61-2) is objected to by Dixit; but Kāśikā cites without any reference पुनर्वसुनेक्षत्रममदितिदेवता and विशासा नक्षत्रमादितिदेवता R.V. (X 19, 1). T.S. and A.V. (XIX 7), use the dual. To what Vedic works does Pāṇini refer here f

The art of writing must have existed in Pāṇini's days, as collections of similarly behaving words could not have been made by mere memory. It is supposed by some that the sūtra style arose because writing was unknown. But such works were learnt by heart because it was considered meritorious to recite them, and the sūtra style probably arose to lessen the labour of learning by heart. Writing was no doubt troublesome in the absence of paper, and the word NAT for letters arose from notching them; but it proves the existence of ineffaceable writing, as NA proves that of books.

Note 4-Geography of India in Panini.

We have already adverted to the fact that Pānini certainly knew two divisions of the Aryan land, viz. the Eastern and the Northern. Dr. Bhandarkar has inferred from the sutra कम्बोजाल्लुक् (IV.1, 75), corrected by Kātvāyana into कम्बोजादिश्यो लुक, that Pāṇini did not know countries and peoples to the south of the Vindhya range where the peoples and kings Chola, Pandya, &c. lived and ruled. This is denied by M. M. Vāsudevaśastri Abhyankar who holds that Pāṇini includes the south in the word Prāchām and the west in the word Udīchām. In support of this opinion he points out the Kāśikā gloss on एङ् प्राची देशे (I 1, 75) wherein is quoted an old verse प्राइदकी विभजते हंस: क्षीरोदके यथा । विदुषा शब्दसिद्धवर्थ सा नः पात शरावती । This river S'arāsvati, it is argued, runs from northeast to southwest and divides India into Pracham and Udicham. Whence this verse is taken is not stated and we are almost sure that this is a Paurana or grammarian śloka of later days. Probably this river is a Kurukshetra river and may be accepted as representing

the two geographical divisions of India as contemplated by Pāṇini. We will take the examples given in the gloss on this sūtra by the Kāśikā, though we must caution our readers against taking them as really Pāni-Unless a place is actually mentioned by Pānini in one of his sutras, we can not be sure that it was known to him. The gloss gives एणीपचनीय, मोजकटीय, गौनदीय &c. as eastern places and दैनदत्त:, i. e. living in देवदत्त, a village in the Vāhīka country, as not eastern. Thus the Panjab and the Kurukshetra are, according to this description, northern lands and Bhojakata and Gonarda, are in eastern lands. We would, however, divide India into three parts, historically speaking; (1) the middle land, viz. the Panjab and, or at least Kurukshetra and Rajpntana; (2) the land near the Indus and beyond the Himālayas as northern land and (3) the land beyond the Jumna as eastern land; and we hold that when Pānini speaks of the differences of the language of Northern peoples (उदीचाम्), he refers to the language of the people to the north of the Sutlej; and when he speaks of the peculiarities of the language of the Eastern peoples (प्राचाम्), he speaks of the lands to the east of the Jumna. Of course भोजकट (in Berar) could not be spoken of by Pānini; for he could not speak of the countries and the peoples to the south of the Vindhyas, though he knew Kathiawar (सीराष्ट्र); nor the countries to the west of the Panjab such as Baluchistan. These parts were not yet colonised by the Aryans. though not unknown to them and their people did not speak Sanskrit and these lands had, therefore, no peculiarities of language to present. This position is also consistent with historical facts. Pānini was a native of S'alatura which is said to be beyond the Indus (Hiuen-Tsiang's Travels); but he lived, learnt and gave lessons. probably at Takshasilā or more probably in Kurukshetra.

The Vedic culture and civilization was, about the end of the Vedic period, centred in Kurukshetra. There were Arvan kingdoms in the east, i. e. eastwards of the Jumna as far as Behar and in the days of the Aitareya Brāhmana, the Aryans had gone into Vanga and Kalinga even, though these tracts remained still outside the pale of Aryan civilization. This part, therefore, was the country of the Prāchām, viz. from the Jumna as far as Behar; and the Aryans there had developed certain peculiarities of speach which Pauini had to notice. It may be added that later commentators who had lost all memory of past geographical differences of language looked upon the words Pracham and Udicham as simply registering optional forms. But Pānini would then have simply used वा or अन्यतरस्याम instead of these two words. The above śloka, however, gives us the view earlier than this, though it is itself not wholly correct.

This eastern, middle and northern division of the Aryan land in the days of Panini is supported by the following sūtras in VI. 2; पुरे प्राचाम् ।, अरिष्टगौडपूर्वे च । and च हास्तिनफलक्मादेयाः । (99, 100, 101). The first sūtra lays down that names of towns in eastern lands are accented in a particular way. The second sutra adds specially Arishta and Gauda which thus are clearly not in the eastern land. Gaudapura is, therefore, not to be looked for in Bengal as one may be tempted to do. Upto Varāhamihira's time (500 A. D.), Gauda was not the name of Western Bengal but was the name of the country round Thanesar in Kurukshetra. The third sutra states that even in the Eastern land, हास्तिन, फुलक and मादेय are not to be pronounced with that accent. This proves that according to Pāṇini, Hāstinapura was in the eastern part of the country. Being on the deft bank of the Ganges beyond Kurukshetra, it is in the eastern country as per definition given above. So also are আইভ্ডৰ and কান্যকৃত্য under I 1, 15.

The sūtra अमहश्रवं नगरेऽन्दीचाम् (VI 2, 89) is important. as showing that besides प्राचाम, there is a third division. which is covered by अनुदीचाम, viz. the middle country. For if there were two divisions only प्राचाम and उदीचाम् Pāṇini would have used here সাবাদ which has one letter The examples given by Kāśikā for अनुदीचाम् are सद्भानगर and पींड्नगर, clearly eastern towns; but विराटनगर is added by another commentary which is in the middle country. Northern towns given here by the Kāśikā. are नान्दीनगर and कान्तीनगर which can not be indentified. VI 2, 87 treats of names of towns ending in new such as इन्द्रप्रश्य &c. but names ending in पुत्र are not noted by Pānini. Pātaliputra given by Kāśikā under VII 3. 14 could not have been known to him as it was. founded about 400 B.C.; Indraprastha must, however, have been known to him. पारलिपुत्र is not mentioned in. any sūtra, and hence this view can not be impeached.

With regard to the countries and peoples known to Pāṇini, Panjab peoples and those to the north of it mentioned by him are मह (VII 3, 13), कम्बोज (IV 1,175), किप्ता IV 2, 99 (किप्ता is Kabul from the instance given in Kāśikā कापिशायनी हाक्षा, a well-known fruit of Kabul even now), वाहीक (IV 2, 47) उशीनर (IV 2, 118), गान्धार (IV 1, 169), साल्वावयव, (branches of the Salva)* or शाल्व (IV 1, 173), युगन्धर (mentioned as a bad town of the Panjab in MBh.), तिगर्त (IV 1, 111), प्रत्यक्षर, कालकूट, भगे and योधेय (IV 1, 175), different form प्राच्य.

The सगोदिगण people and the योधेयादिगण people are from IV 9, 178 clearly northern people; and they are सर्ग, करूप, केकय, कश्मीर, उरश, सास्त्र, सुरवात (Swat) mentioned in the मगोदिगण and योधेय, शोक्रेय, शोकेय, वार्तेय, धार्तेय, त्रिगर्त, सरत and उशीनर mentioned in योधेयगण. The Bharatas mentioned as nothern people are the original Bharatas.

Of the peoples to the east, actually mentioned in sutras, are पाञ्चाल and निषध (IV 1, 192), काशी (IV 2, 116), सगध, कलिंग and सरमस (IV 1, 170). Under प्राच्यभगीड-यौधेयादिम्य: (IV 1, 178) the Kāśikā gives the following as Prāchya peoples, viz. पांचाल, वैदेह, अंग, बंग and मगध, Magadha and Kalinga are directly mentioned in IV 1. The Arvans had advanced into Kalinga even in the days of the Aitareya Aranyaka. They were not then yet settled therein Sauvira (सोवीर) is mentioned in IV 1, 148; and in thit the Aryans had long settled, as its milkwomen crying तक are mentioned in प्रातिशाख्यs. It is certain that Pāṇini knew not the Deccan and the South, no names from there occurring in his sutras. The Arvans had, however, then settled as far as the Vindhyas as we have a direct mention of अवन्ति (Ujjain) and कुन्त (कृतवाल in Gwalior) in IV 1, 176 and श्ररसेन in Kāśikā under 177. The अन्धक and वृष्णि of Dwarka are directly mentioned in IV 1, 114 and the हैंड्य in the शिवादिगण (IV 1, 111).

The sutra बहुच इञ: प्राच्यमरतेषु (II 4, 66) shows, to our mind, that the Bharatas were a distinct people not of the east but of the middle land as also of the Panjab, which was their original home, a fact wrongly denied by Kāśikā.

When it further gives under Bharatas here the example gradult as indicating the descendants of Yudhishthira, it further forgets that from the Mahabharatastory, we are certain that Yudhishthira left no descendants, the only representative of Pāṇdu's family after the massacre by Aśvatthāman in the dead of night being Parikshit in the womb of his mother. If we do take and must take Yudhishthira and Arjuna as Bharatas, we may hold that Bharatas were spread in both east and north and hence required a special mention. A similarly wrong remark is given by the Kāśikā under

न द्रबन्धः प्राच्यमरतेषु (IV 2, 113).

The Kāśikā remarks here that the Bharatas were themselves an eastern people and, therefore, should not have been mentioned in addition to Prāchyas and thus finds out a आपन (hint). But we think that the Kāṣikā, having no idea as to the geographical condition of Pāṇini's time, wrongly criticises him here.

The sutra भौरिक्यायेषुकार्यादिन्यो विधल्मक्तलो (IV 2, 54) mentions many peoples and countries not now known or even suspected; भौरिकि and ऐषुकारि are unheared of even in Mahābhārata and their countries with names ending in विध and मक्त such as भौरिकिविधः (देशः) and ऐषुकारिमक्तः. Under the former gama we find सेक्यत and वेक्यत and under the latter सोवीर and दासमित्र.

Names of towns and villages are found mentioned in several sutras such as कारतीर and अजस्तन्द mentioned already (VI 1, 155). Four sutrās explain how their names arise (IV 2, 70 &c.). (1) तदस्मिन्नस्त, from something which is found there; (2) तेन निर्वत्तम्, founded by some one, (3) तस्य निवास: inhabited by some one and (4) अब्दे. near something. Hundreds of names of towns and villages are given in illustation by the Kāśikā as also in the gauss indicated by the word आदि. बरणादिभ्यम (IV 2,82) includes मधुरा, उज्जियनी, गया, तक्षशिला and उरशा in Kashmir. The sūtra उदक्च विपाश: (IV 2, 74) is very interesting. Firstly it mentions the Panjab river विपाश or Bias. It further proves Pānini's minute knowledge of the villages of the Panjab. Wells dug north of the Bias are named in a particular way, while those to the south, in another. And thirdly, the names are accented in different ways in different places. स्रोष सौनीरसाल्बप्राध (IV 2, 76) is important. For town names were often feminine like दात्तामित्री नगरी in सोवीर. Such towns in eastern lands are instanced by Kāśikā in काकन्दी and माक्नी. (This sutra further proves that according to

Pāṇini, सौनीर and साल्न were not in the east, the former being in the middle land and the latter in the north). River names are often formed in the manner of thosefound in the Mahabharata list of rivers. उदीच्यमामाच्च बहुचान्तोदात्तात् (IV 2, 109) clearly shows that even in the names of towns there were accents in the spoken language in the days of Pānini. Where ক্লে is, cannot now be determined (राङ्क्त्वो गी: VI 2, 100). We have already mentioned towns ending in प्रस्थ; but प्रस्थोत्तरपद-पलचादिकोपधादण् (IV 2, 110) includes many towns in the पलचादिगण of which यक्क्कोमन and कालकूट are fit to be noted here as mentioned in the Mahabharata and the Rāmāyana also. But तूदी, शलातुर, वर्मती and कूचवार mentioned in IV 3, 94 which are towns or countries probably in the north are not found in MBh. though तक्षक्षिला mentioned in the preceding sutra is. In this gaṇa we may notice कश्मीर, उरस्, avd दरत्.

How Pāṇini's acquaintance with the Panjab was very

How Pāṇini's acquaintance with the Panjab was very close appears from वाहोंकेषु आमेन्यश्च (IV 2,117) which states that names of villages in the Vāhika country only were treated in a certain way. Kāśikā instanses बाकिल्का, शाकिलंकी. Sākala was a well-known town in the Vāhika country (see MBh. शाकलं नाम नगरम-कणेप, where the Vāhikas are denounced as very irreligious.). Pāṇini in the next sūtra विमापोशनीरेषु (IV, 1, 118) states that though Uśinara was a part of the Vāhikā country, the names of villages in it were optionally subject to the same rule. Kāśikā mentions as instance आहुजालिका-की aud आहुजालिका-की aud आहुजालिका-की aud आहुजालिका-की aud आहुजालिका-की and सोद्योनीया, Pāṇini's knowledge of the Panjab goes down even to optional forms of names of villages. Another sūtra gives कुल, सूद, एयल and कुष as the usual endings of village names (VI 2, 127). Pāṇini seems to look upon Vāhīka as ageneral name for the Panjab in V, 3, 104. For he apparently classes मुक्ता: and माल्या: as Vāhīka peoples.

But here they are not Kshatriyas as the Kāśikā seems to indicate!!! V, 3, 116 gives more fighting tribes, viz. दामन्यादि and त्रिगते with their five allied clans (लिगतेषष्ठ.). The names given in these two games do not occur in MBh. The पश्चीदि and the योषेयादि fighting tribes mentioned separately in the next sütra (V, 3, 117) taking certain Pratyayas contain some names of outsiders, viz. पश्चे, असर, बारहीक (not बाहीक) and पिशाच (who gave their name to the पैशाची Prakrit). The latter game contains the well-known Indo-Aryans योषेय, त्रिगते, सरत and उशीनर.

Note 5-Unusual words in Pānini

We have already noted that Sanskrit being the spoken language of the people in the days of Pāṇini, many words occur in his sūtras which are now out of use and hence not understandable, e.g. माजी, जंस &c. There are also some unusual forms. मातरापतरावृदीचाम् (VI 3, 32) and सङ्यिश्वीति मावायाम् (IV I, 62) may be noted. सखी and अशिश्वी used by the common people were सखा and अशिश्वा in Vedic language. रथ च मावायाम् (VI 3, 20) shows that वियमस्थ was विषमस्थ in Vedic. गोत्रान्तेवासिमाणवन्त्राह्माणेषु क्षेपे (VI, 2, 69) shows how जंघावास्यः, जुमारीदाक्षः, मिझा-माणवः, वृष्ठीमाह्मणः were terms of contempt. टाण्ड जिनिक meant दास्तिक (V 2, 76). रूप्य meant handsome: रूप्यः पुरुषः (V 2, 120) as also आहत in रूप्यः दीनारः (दा.). The word रूपक (rupee) subsequently was perhaps taken from this use.

THE DATE OF PĀNINI

Next to the date of the Satapatha Brāhmana, the most important date in the history of Vedic literature is that of Pānini. It is also the subject of the greatest divergence of opinion between European and Indian scholars. the former place Pāṇini generally "in the middle of the Sūtra period' (Macd. p.244) which is taken to range from 600 to 200 B.C., the latter including the late Dr. Bhandarkar place him before Buddha.i.e. before 500 B.C., at the latest, some placing him as early as even 1000 B. c. We place Pāṇini about 800 B. C.; and we detail our reasons for this view in this chapter. The late V. K. Rajawade, the well-known Maratha history researcher, also held the same view and detailed his arguments in a paper read before the Itihāsa Samsodhaka Mandala in 1911 A.D. in Marathi (see its Report for 1911). We will first give these arguments with such observations of our own as are necessary.

It must at once be pointed out that the story of the Kathäsaritsāgara that Pāṇini was a contemporary of Kātyāyana, both being pupils of Upavarsha who lived in the time of the 'Nine Nandas' is a pure fiction. The fact is that this 'ocean' of stories was composed in Sanskrit in

about 1000 A. D., on the basis of a work of Gunādhya in Paiśāchī. Realities had so far been forgotten that Paiśāchī from being a real Prākrit spoken in the Panjab and the adjoining northern countries had become the language of goblins; and the work of Gunadhya is represented in this ocean of absurd stories as written by goblins in blood. The story in this ocean about Pānini may, therefore, be safely rejected, bringing together, as it does, the three great authors on grammar, viz. Pānini, Vararuchi and Vyādi, much as modern tradition brings together the two best poets in classical Sanskrit, viz. Kalidāsa and Bhavabhūti.* We now know for certain that Kālidāsa preceded Bhavabhūti by at least two, if not seven, centuries. We must equally be sure that Panini preceded Katyayana by two centuries at least. For when in his Vartikas or 'Notes,' Kātyāyana suggests emendations or additions to the sūtras of Pānini, it is not because Pānini had committed mistakes and required correction, but mostly because language had changed since the time of Pāṇini up to the time of Kātyāyana. For such change, at least a period of two or three centuries must intervene between the two. We know for certain that Patanjali who wrote his unique Bhāshya on

^{*} The further story that Pāṇini was originally a dunce is on a par with the similar story about Kālidāsa.

Pāṇini's grammar as emended by Kātyāyana's Vārtikas, lived about 150 B.C., as he refers to the invasion of India by the Greeks under Menander as a contemporaneous event. Kātyāyana may be taken to have lived about 200 years before Patanjali of 150 B.C., i.e. about 350 B.C., the age of the Nandas, and Pāṇini to have lived at least about 200 years before Kātyāyana, i.e. about 550 B.C. It may be noted that Macdonell in his last work gives 500 B.C. as the date of Pāṇini, though no reason is assigned for this change of opinion.

When Kātyāyana emends or adds to Pāṇini's sūtras, it may generally be taken, as stated above, that he does so because language had changed by his time. It is true that some of Kātyāyana's Vārtikas supply real omissions by Pāṇini, epecially those wherein Chhandasa or Vedic forms are noted in the Vartikas; for we have to believe that Pānini must have had the Samhitas before him; and when any addition or emendation is made to Pāṇini's sūtras on their score, it supplies an omission by Pānini as in VI 2, 199* or VI 3,21, But ordinarily, looking to the genius of Pāṇini, and especially in matters of the spoken language, we must hold that Kātyāyana suggests alterations or additions simply because language had changed since the days of Pāṇini or new words had got into the language. This view,

^{*} Even here no change of accent can explain Papini's silence.

underlies the arguments advanced V. K. Rajwade as also by Dr. Bhandarkar.

(1) The sūtra of Pāṇini कम्बोजाल्लुक (IV 1, 175) is emended by Kātyāyana by the Vartika कम्बोजादिभ्य इति वक्तव्यम्. Pānini mentions only कन्बोज as denoting both people and their king and Kātyāyana by कम्बोजादि adds four more words, viz. चोल, शक, यवन and केरल. Dr. Bhandarkar argued from this that while Pāṇini knew only the Kambojas (a people to the north of India), Kātyāyana knew the Cholas and the Keralas and that the Aryans must have advanced into Southern India after Pānini and before Kātyāyana, i.e. between 700 and 350 B.C., nay before 500 B. C., as in Buddha's days, towns in the south such as Surparaka were known. Dr. Bhandarkar thus determined the date of the colonization of the Deccan and South India by Aryans with which question he was concerned. He naturally did not draw the inference derivable from the other two words शह and यवन. Rajawade takes up these words and discusses the natural inference from their non-mention by Pāṇini. These are northern peoples and Pānini who lived in Takshasilā must have known them and the two words must have been current in the spoken language of his time. Indeed यवन is mentioned in one of his sutras (IV 1, 49) and Saka also in another sutra. His omission of these two words in the sutra कम्बोजाल्छक्, therefore, shows that although he knew क्रक and यक्त people, they had no

kings and, therefore, these words in his time did not denote any kings. We know that a Śaka kingdom was destroyed by Cyrus in 550 B.C. and that it had been founded by Deioces about 700 B.C. Rajawade, therefore, properly argues that Pāṇini who did not know of any Śaka kings must have lived before 700 B.C. Similarly Pāṇini did not know of any Yavana kings and, therefore, he must have lived not only before Alexander but before Darius in whose invasion of Greece, Indian soldiers formed part of the Persian army.

(2) Rajawade discusses next the sūtra इन्द्रवरण... यवयवनमातुलाचार्याणामानुक् (IV 1, 49). It is clear from this sutra that यननानी in the language of Panini meant a Yavana woman. But according to a Vartika of Vararuchi, यवनानी meant यवनलिपि, the writing of the Greeks, a Yavana woman being called यवनी as in classical Sankrit. Yavana also meant to him both Greeks and Greek kings. is thus clear that while Kātyāyana knew Yavana kings and Yavana writing, Panini did not know either, though he knew the Yavana people and Yavanānīs, their women. This change of meaning of यवन and यवनानी indicates the dates of both. Kātyāyana must have lived after Alexander, at least after the invasion of Greece by Darius: but Pānini must have lived before both.

It may be objected that the sutra इन्हबर्ग...ववन &c. shows that Pāṇini knew the Greeks and consequently he must have known their kings and their writing, as there were kings in Greece and the Greeks were an advanced people. This objection, in our opinion, though plausible, is refutable. We know from the account of Arrian that the Greeks of Alexander found a colony of Greeks long settled in Afghanistan who were practically cut off from Greece and who were in a very backward condition. These Pāṇini knew; and as they had no kings, the word Yavana meaning a king had not yet come into use; and as they were illiterate, the word प्रवास could not have then meant प्रवासित. Hence Pāṇini could not give प्रवा in कंगासस्क्र nor could the latter word mean a special mode of writing.

(3) Rajawade next notes the sutra अरण्यान्मनुष्ये (IV 2, 129) extended by Kātyāyana to प्रयापन्याय-विहासमुच्यहस्तिषु इति वाष्यम्. Thus आरण्यक to Pāṇini simply meant a forest man; to Kātyāyana it also meant a forest path, a book of study, a forest Vihāra &c. We have already noted (Sec. II p. 140) that the word आरण्यक as applied to certain Vedic works did not exist in the days of Pāṇini. But this fact does not supply us with a datum since we cannot determine when the word came into use. But the word विहार does so and indicates that Pāṇini lived before Buddha, as Vihāras came into existence after Buddha and the word आरण्यक as meaning a forest Vihāra came into use after him.

It may be objected that Pāṇini knew Śramaṇas from the sūtra कुबार: असम्बिस: (II 1, 70) and must hence have lived after Buddha. But unlike the word विहार, the word अभग existed long before Buddha. It originally meant monks generally and is used in this sense in the Brihadāraṇyaka. It was appropriated later by Buddhism. Vihāra in the sense of monks' cell is post-Buddhistic and hence while Kātyāyana clearly followed Buddha Pāṇini must be taken to have preceded him.

(4) Winternitz in his 'History of Indian Literature' while placing Pāṇini about the 5th country E. C. (p. 44) does not place him before Buddha perhaps for the above sutra. But there are other indications which make Pānini precede Buddha by several centuries. As stated above. Śramana is an older word for monks generally and this sutra is of no value in determining Pānini's date. But as Rajawade points out, we have the use of the word भाषा by Pānini to denote the language later called Sanskrit. We have already stated at length that the Prakrits arose after Pāṇini, and that by way of opposition, the ancient language which remained as the spoken language of pandits was called Sanskrit. Buddha preached in Pāli, the common language of the people at his time in Magadha, and hence must have been born at least two or three centuries after Pāṇini. It is conceded by Goldstücker also that Pāṇini preceded Buddha.

Professor Pāthak of Poona argues from the eutra नुसार: अमणादिसि: that Pāṇini lived after Pāréva-

nātha and before Buddha. He thinks that the young female recluses mentioned by Pāṇini were Jains and that Pārśvanātha was the first Jain preacher who lived before Mahāvīra, the contemporary of Buddha, about 700 B.C. But Jainism does not believe that Pārśvanātha was the first Jain preacher, there being several before him like Ādinatha. And secondly, as stated already, the word Śramana is a general word meaning monk and not necessarily a Jain monk.

The sutra निर्वाणोऽवाते is taken by many as indicating that Pāṇini lived before Buddha. Both Goldstücker and Pathak quote it in this connection. It is thought that Pānini did not know Nirvāņa in the sense the Buddhists took viz. absolution. M. M. Vasudevaśastri Abhyankar thinks, however, that such an inference can not be drawn. The word निर्वाण in this sutra is a verbal past participle, i.e. क्तप्रत्ययान्त adjective, e. g. निर्वाणोऽभिः निर्वाणो मुनिः-का.; but the word निर्वाण in the sense of मोक्ष is a noun and ल्युर्प्रत्ययान्त formed under the sutra ल्युट् च (III 3, 115); भावे धातीर्ल्युट् प्रव्ययो मनति e. g. शयनम-आसनम-काशिका. This opinion is well founded and makes it certain that the word निर्वाण like surv existed from before Buddha in the sense of absolution or mere absorption in which sense it appears in the Bhagavadgītā also. The importance of this fact will appear further on, when we speak of the Gītā. It is only to be noted here that the sutra निर्णाणाडवाने has no bearing whatever on the question at issue and can not necessarily show that Pāṇini preceded Buddha.

(5) An argument is derived by Rajawade from. the sūtra पर्श्वादियोधयादिम्योऽणकौ (V 3, 117) which shows that the Tis or Persians were in the days of Pāṇini still an आयुषजीविसंच (V 3, 114) or a community of soldiers living by their arms, fighting for any one who paid them; in short. they had not yet founded the Persian empire. The Persians founded their empire under Cyrus about 550 B.C. Rajawade pointed out that in. the brick records of the Assyrians, the word Persian is even spelt as Parsua and their mention goes back to 850 B.C. He quotes here Historians' History of the World Vol, I p. 388 and II p. 560. We may, hold therefore, that Pānini must have lived between 850 and 550 B. c. It can not be argued, Rajwade urges, that the Persians again became an आयुषजीविसंघ after the destruction of their empire by Alexander and Pānini's sūtra refers tothat time, as we are certain that Pānini lived before Alexander himslf. It may be added that. after the Persian empire was destroyed, the fameof their empire was too great and secondly history does not record that the Persians, after the destruction of their empire, again became renowned as a warlike people.

Rajawade sums up his arguments thus:— Pāṇini preceded Alexander and other Yavanakings and preceded Cyrus who destroyed the Assyrian kingdom in 538 B.C. Pāṇini preceded Buddha and the rise of Prākrits. He lived at the time when the Persians were still an आयुष्णीविसंप, i. e. in the period between 850 and 550 B.C. Pāṇini preceded the establishment of the Saka kingdom under Deioces about 700 B.C. He adds. that यूवन or Ionions were known after the Trojan war (1200 B.C.) and that the Grecian alphabet was evolved about 900 B.C. Pāṇini's earlist date can not go beyond 1200 B.C. and his latest date can not be later than 700 B.C.

(6) The following sūtras, we think, futher support the date assigned to Pānini by Rajawade:-बाह्रदेवार्जुनाम्यां वृत् (IV 3, 98) shows that Vasudeva and Arjuna were worshipped as gods in the days. of Pāṇini. We know that this position was lost by Arjuna in the days of the Mahābhārata. But the original work of Vyāsa, viz. Jaya, did. look upon Arjuna as a god, as in the very beginning verse of salutation नारायणं नमस्कूल नरं चैव नरोत्तमम् &c., Arjuna is bowed to. This verse at least belongs to the same period as वासुदेवार्श्वनाम्यां बन. In the Bhagavadgītā we also find Arjuna treated as. an Amśāvatāra in पाण्डवाणां धनंजय:. We will return to this subject when we speak of the Mahābhārata and the Bhagavadgītā in detail. Why Arjuna lost this position by the time of the Mahabharata is an interesting question. It seems to us that the Gītā gave rise to the cult of Vāsudeva-worship, subsequently called Pancharatra, explained at length in the Mahābhārata; and in this cult, three near relatives of Vāsudeva, viz. Balarāma brother, Pradyumna son and Aniruddha grandson, were deified and the four looked upon as Vyūhas. Arjuna was thus left out and no longer was worshipped as a god. This sūtra leads to the inference that Pāṇini lived before the rise of the Pāūcharātra cult which is pre-Buddhistic.

(7) The most interesting sūtra which we adduce to prove the priority of Pāṇini to Buddha is VI, 2, 42, wherein to कुरवाईपत of Pāṇini, Kātyāyana adds दुनिगाईपत, (कुरवृड्योगीईपतिमिति वक्तव्यम्). One may safely infer from this that the Vṛijis were a people who were not admitted to the Vedic religion, being foreigners, in the days of Pāṇini but were so in Kātyāyana's days. The Vṛijis were known to Pāṇini from मंद्रवृज्ये: कन् (IV2,131); but they were non-Aryans and had no गाईपत. The Vṛijis, Lichchhavis and others figure in Buddhistic history and this proves that while Kātyāyana followed Buddha, Pāṇini preceded him by some centuries.

This emendation of Pāṇini's sūtra is important in another way, because it suggests a solution of the interesting question in Indian history, how did the Prakrits arise? We are certain that they had no existence in the days of Pāṇini but had already come into being in the days of Buddha. What led to their rise is as yet a riddle. History, establishes the principle that a general

upheaval of society usually leads to the rise of new languages. We know that the incursions of Goths and other barbarian hordes not only destroyed the Roman empire but also the Roman language. We know that thereafter arose new languages based on Latin itself in Italy, France and Spain. Similarly in India, the modern Sanskrit-born vernaculars arose about the tenth century A. D. and the ancient Prakrits died because of the incursion of new ideas born of the philosophy of Śankara and the downfall of Buddhism. The ancient Prakrits used by Buddhism fell into abeyance and Sanskrit coming into popular favour, modern vernaculars arose by the use of Sanskrit or Tatsama words. (See our history of Mediæval Hindu India Vol III p. 471 &c.). The political history of India before Buddha is almost a blank and we do not know yet definitely what happened in India which led to the death of Sankrit as a spoken language and the rise of Prakrits before the birth of Buddha, One fact we have already noted, viz. that Aryans went into and settled in Mahārāshtra after Pānini and before Buddha. These Aryans married non-Aryan women to a far greater extent than they had hitherto done. We know from Harivamsa that the Yādavas who principally settled in the Deccan were Aryans born of Naga women and the admixture of Dravidian blood is found to larger extent in the Deccan than elsewhere.

Already in Panini's days, they had settled in Dvārakā and other places and deteriorated. For the sūtra राजन्यबहुवचनद्वन्द्वेडन्धकबृष्णिषु (VI 2, 34) discloses the fact that among the अन्यकबृध्णिड, there were tribes which were not Rajanyas. The Kasikā names them as द्वैप्यand द्वैपायन (द्वीपे भवाः born in an island). Śrikrishna, himself a V rishni (वृष्णीना वास-देवांडिस्म), had married many non-Aryan wives. These mixed tribes must have begun to speak in softened and modified Sanskrit in the Deccan and in Gujarat and thus arose Māhārāshtrī in the south. But what led to the rise of Pali in Oudh and the adjoining country? The Aryans were already long there and, having remained pure in race, spoke Sanskrit still with some provincialism of the आचाम्. This sūtra and its Vārtika bringing in the Vrijis seems to indicate that after Pāṇini there was a great upheaval of society in Oudh by their incursion. These were admitted finally as Vrātya-Kshatriyas, vide Manu; peoples, such as Vrijis, Lichehhavis, Daradas &c.of Tibetan origin adopted the religion and language of the more advanced local people but in adopting the language modified it into Pali. This incursion must have come via Nepal and not by the usual North-West route, as the population of the Panjab and Rājputāna still remains predominantly Aryan by race.

(8) If we scan further the history of the Parsus, we can take Pāṇini two centuries before

Cyrus. From the obelisk of Shalmaneser we learn how the Assyrian king marched into the territory of Persia and received tribute. This was in 836 B.C. (H.H.W.Vol. II p. 589). The first king of Parsus and an ancestor of Cyrus was Teispes who flourished about 730 B.C., somewhat earlier than the foundation of the Median (अक) empire (p. 390 ibid). We may believe that the Parsus ceased to be freebooters about this time and hence Pāṇini who speaks of us as an आयुष्णितिसंग should be placed earlier than 730 B.C. Parsus later became Parsis, the Pārasīkas of Kālidāsa.

From all these arguments, we are justified in holding that Pāṇini preceded Buddha by three centuries and the formation of the Śaka and Parśu kingdoms in 700 and 730 s.c. by one century and he may thus be placed in the 9th century s.c. approximately.

It is inexplicable how Prof. Belvalkar puts Pāṇini about 650 B.C., accepting, as he does, all the arguments adduced by V. K. Rajawads, especially the one by which he places Pāṇini before 700 B.C., the date of Deioces (Systems of Sanskrit Grammar, p. 18). Instead of the 7th century B. C., Pāṇini should have been placed in the 8th and even the 9th. Probably Prof. Belvalkar thinks that "Pāṇini must have known some forms of Gṛihya and Dharma Sūtras" from IV 4, 71. But the Gṛihyas did not lay down rules ab initio;

they only embodied the current practice in rules; thus the अदेशकाल of अध्ययन must have been long established in practice. We have already shown how the Grihya Sūtras fall outside the Vedic period and how Pāṇini could not have known any Grihya sūtras.

It may be objected that such words as रामक, बर्बर, अउसक &c. occurring in the Ganapāthas go against our date for Pāṇini. But we have to remember that these lists have not come down to us as they were recited by Pāṇini. They were in fact intended to be आकृतिगण्ड or illustrative lists and additions must have been made to them from time to time. Then again Aśmaka may be a country or people in the north near Avanti (अवन्यसम्बन a gaṇa given in VI 2, 37) from whence the name has been taken to the Deccan as several names clearly are. This argument, therefore, can not avail against the overwhelming data given above.

APPENDIX

1 OTHER SRAUTA SUTRAS

1 S'ānkhāyana

This Sutra which belongs to the Rigveda has been edited in the Bibliotheca Indica Series, by Dr. Hillebrandt in three volumes published at Calcutta (1888. 1891 and 1897). The first volume contains the original Sūtra and the next two volumes give the commentary of Varadattasuta Anartiya. The S'ankhayana S'ākhā is found in North Gujarat and naturally the commentator also belongs to Anarta which means the same province. S'ānkhāyana can not name of the author of this Sūtra as it is the name of an Achārya in the Achārya-tarpana list of Rigvedins. who is therefore the author of a Brahmana. The author belongs to the S'ākhā only and gives the S'rauta riual of that S'ākhā. The Sütra follows the Kaushitaki Brāhmāna which is also called S'ānkhāyana, and this is clearly a gotra name from S'ankha--a Rishi.

The Sūtra is divided into 18 chapters subdivided into Kaṇḍikās or sections consisting of a number of short sūtras. The number of sūtras in this edition is different from the number given by the commentator; Dr. Hillebrandt thinks that the commentator has wrongly split up some sūtras into two or more. But the sections and the chapters are the same in both. The sūtra gives the ritual in all S'rauta sacrifices, chiefly in relation to the work of the Hotri whose duty it is to recite mantras from the Rigveda in praise of gods. The Sūtra as usual begins with the Darsapūrņamāsa and ends with the

highest sattras or sacrificial sessions like Asvamedha.

The extreme care and erudition with which the Sūtra is edited will appear from the seven indices appended, the most important of which (V) gives references to the Rigveda of the Sākala S'ākhā for all verses quoted in the Sūtra. Index VI gives the verses, only twelve in number, which could not be found. This shows that the Sūtra uses a slightly different version of the Rigveda. Lastly, an index of the Gāthās and S'lokas quoted in the Sūtrs is given. Whence these are taken cannot be found. We have already mentioned (See II p. 196) that the Brihadāranyaka Upanishad notices works known as गायाड as also सूत्र, व्याख्यान and अनुव्याख्यान which are now all lost.

The learned editor thinks that the Sūtra has ben added to from time to time, especially in optional rocedure. This is probable though to a limited stent. It is, therefore, difficult to determine the probable date of the Sūtra; but it seems likely that it is anteior to the Āśvalāyana Sūtra as we find from its entents. The sūtras are short and simple and lay down detailed rules for reciting mantras at the various scrificial and other acts.

The contents of the several chapters with the incresting statements in them may be noted shortly as iclows: Chapter I gives provisions for recitations of matras such as उपाद्ध or otherwise, with ओम् or without, and so on and ये यजामहे for याजवा. "The S'rauta sacrifices can be performed by the three varnas". The mixed castes had apparently not arisen. The Darsapūrņamāsa sacrifices are to be performed on Amāvāsyās and Pūrņimās which are of two kinds, viz. when the moon is and is not seen, or when the moon is and is not full. This seems to show that astronomical calculation had not yet far advanced; and the exact time of the full moon or no

moon could not be calculated beforehand. The sacrificers had, therefore, to watch the sky. The word आवाप is defined as अन्तरेणाज्यभागं स्विष्टकृतं च यदिज्यते तमावाप इत्याचक्षते (16, 3). Differentiating याज्या from पुरानुवाक्या, it is laid down that अदि, भिव, जुषस्व, मत्स्व आवृषायस्व, वीहि, प्रदेवतानामिति याज्यालक्षणानि। हुवे, हवामहे, श्रुध्यागह्यदं बहिनिषीद प्रदेवतानामिति प्रोनुवाक्यानुलक्षणानि (17, 14, 15), This Sutra uses द्ध for इ (e.g. अहेलता, पुरोलाश) and not & of the S'ākala recension.

In Chapter II the आधानकाल is given as in other Sutras; but the रथकार is not here separately mentioned. This indicates a later date for it than Apastamba and Kā yāyana. शुद्ध क्षेत्र न पूर्णये नक्षत्रे is also later, especially the word शुद्ध, ऋतं त्वा सत्येन परिषिद्यामि and सत्यं त्वतेन परिषिद्यामि (प्रात;) are found here (6, 10). पर्यायनागूर्दण्याज्यभित्यमिहोत्र-हर्वाषि shows that for daily अभिहोत्र flesh was not prescribed.

Chapter III mentions various sacrifices connected with Agnihotra which are not mentioned elsewhere, one of which is बहुदेबता इष्टि (ज्ञानयोऽपंत्रिदानाः i.e. families fighting among themselves should perform this for unity 6-1). In the end प्राथिति are given for lapses in अभिहोत्र; and Rigveda, Yajurveda and Sāmaveda lapses only are mentioned and not Atharvaveda.

Chapter IV begins with the remarkable provision that the sacrificer and his wife should eat before letting off the call; but यहन्यनांम क्रमणिश्वननांभागे येन च द्रव्येण यह्यमाणः स्थान्. Breakfast is thus allowed for an अभिहोत्रो. मध्यमिण्ड पत्नो पुत्रकाना प्रक्षोयात् in निण्डित्यित्र seems a late addition. The form (अभिहोत्र) ह्रमणे is found in this Sutra also. कीर्पातिकः is mentioned here as an authority. Some other rites are described including the burning of a dead अभिहोत्रिन्. The सूज्यन sacrifice is described in which a bull is sacrificed to propitiate Siva who is पद्मपति. The bull is killed by sufficient him (तं संज्ञायन्ति प्रकाशिसमुदक्यादमस्यमाणम् (17-6). Finally मुश्के is described, to be offered to आचार्य, ऋतिक, इरग्रुर, राजन्, स्नातक

and प्रियर. The bull offered is to be let loose optionally-गोहरसुजते तृणान्यत्त्विति वा। (21, 22).

With Chapter V we have the higher sacrifices described beginning with Riv., with the usual details.

Chapter VI, saying that অমিছামীয is the সন্থানি or model of all ব্যুঙ, details the বিকুনিছ (changes) with the various mantras, especially so many verses in such and such মুস etc., So also Chapter VII gives detailed mantras for মাঘ্টনে মনন with details of Sāmans sung and their metres.

Chapters VIII describes the तृतीय सवन. Everywhere the duties of the different priests नेतृ, पोतृ, अमीप्र &c. are given. The ceremonies प्रायणीया, उदयनीया, दीक्षणीया, अनुबन्ध्या are noticed and finally the अवस्थ. Sections 16-21 are in the nature of a Brāhmaṇa describing how different gods partook of the Soma. The sentences are short with alliterative words. We find here Yājuḥ mantras also.

Chapter IX begins with the sutra व्याख्यातोऽमिष्टे।मः प्रकृतिर्द्धाहरयेकाहानां च (१) The Pasus to be sacrificed are enumerated as follows-पुरुषाऽजोऽविको गौरश्व इति पञ्च पञ्चव : 1 अजी वा तपरः (23-45). Human victims were released in the S'rauta Sūtra times; but an actual human sacrifice is described at the end. Chapter X describes the द्वादशाह with दशराज in the middle with increasing Stomas (9.15. 17, 21, 27, 33, 44, 48 and 54) and with different Samans. Chapter XI begins with व्याख्यातो द्वादशाह: प्रकृति: सत्राहीनानाम् and describes अहीनs. पेंड्ग्य and कोषीत्कि are quoted as opposing authorities. In XII we find Kuntāpa verses इंद जना &c., the same as in A. V. The Sütra gives them because the Kaushitaki Brāhmana does not give them as the Aitareya does. On comparing these with A. V. we find 4 is given at 6 and 7 - 10 about Parikshit are given later. The पारिक्षित्या four verses are last quoted, then the gamasig and then other Puranic verses with न्यूख at the end as अरितारा थामी दैवीम &c (23).

Chapter XIII provides for minor matters such as the sacrificer's death (यदि दीक्षिता प्रमीयेत दग्ध्वास्थी नुनपद्य पुतं आतरं वा दीक्षियत्वा सह यजेरन् 41, 1). If Soma cannot be bought or obtained, प्रिकान् श्वतपुष्पाण्यर्जनानि कुशान् वाभिष्ठस्य is prepribed (6-3). There is no higgling in the purchase of Soma as it is simply provided सोमाहराय सोमविकायण वा किंचिद्द्यात् (6-21). Finally all the highest sacrifices are described together with the सारस्वत सत्र on the banks of the Sarasvatī and दार्शहत on the banks of the हशहती.

Chapter XIV curiously enough reverts to minor sacrifices like বার্মাধ্য, বহলসম্বান &c. and in Brāhmaṇa fashion ascribes their origin to Prajāpati, Indra, Sāvitrī and others, these having first performed them. A special sacrifice to be performed by Brahmins and Kshatriyas is prescribed to make them united (29).

Chapter XV continues in the same Brāhmana strain in short sutras शरदि वाजपेयेन यजेत । पानं वै पेय: । अन्नं वाज: । and everything is seventeen as elsewhere. Aptoryama is described and the name is explained in a sutra. यमस्तोम and वाचस्तोम are new sacrifices. The several higher digits of number are given as अयुत, प्रयुत, नियुत, अर्बुद, निखर्व, समुद्र, सिंडिल, अन्त्य and अत्यन्त (II. 4); we do not come across कोटि yet. Rājasūya is seen by Varuna who wished to be king of kings. मार्गवो होता requires the Hotri in this sacrifice to be of भृगु गोत्र. दशपेय is for येषामुभयतः दशपूरुषाः श्रोत्रियाः (14, 9). Sautrāmaņa is then described (the name being सीत्रामण) and a new mantra is prescribed for taking स्रा. Lastly, the शोनःशेप आल्यान is related here at length which is out of place in a Sūtra; but the Akhyāna is not given in the Kaushītaki Brahmana as in the Aitareya and hence its recital.

Chapter XVI concerns Asvamedha which is said to have been seen and performed by সনাপনি to obtain all desires. It is said to be সিয়েল. The Hotri recites Pāriplava, derived as যয়েল: প্ৰনিঃ বাংগান্তি নামে (2, 36). The

ten Vedas recited on 10 days detailed here are nearly the same as elsewhere; but अथवंदेद is mentioned as भेषज and आङ्किरसवेद as घोर (घोर निगदेत् 12). What is रक्षोविधा to be recited to सेलगड who are plainly रक्षांस or cannibals? पश्चकेंकविंशतिः is to be noted. Rig verses are recited at each action which are really in the Rigveda. Thus यदशाय नाम: &c , recited when covering the horse with a cloth, is traced in the Index to I 162, 16 and A. B. This shows that the horse sacrifice ritual is very old. इन्होत: शोनक: is mentioned here (7, %7) as performing अश्वमेध for जनमेजय पारीक्षित. His three brothers उपसेन, भीमसेन and धतसेन are also mentioned. This is out of place in a Sūtra being in Brahmana style. Sections 10 to 14 describe पुरुषमेथ in a strange manner different from other Sūtras. It is seen by अजापति and performed by him for securing any and all things not secured by अश्वमेध. It follows the अश्वमेध ritual in all respects. A man, Brahmin or Kshatriya, is purchased and allowed to roam for two years (बाह्मणं क्षात्रियं वा सहस्रेण शताश्वेनावकीय संवत्सरयोहस्जन्ति (10, 9). Then a list of Rishis is given which requires to be scrutinized and their verses are recited, viz शुन:शेप, कक्षांवान् औशिज, स्यायाश्व आर्चनानस, भारद्वाज, वसिष्ट, मेघातिथ, कण्व, वस्स, प्रस्कण्व. पंचविंशतिर्युपाः (Asvamedha has twenty one). संज्ञप्तं वामेन साम्रोद्धातीयतिष्ठते (12,21) and संज्ञक्षाय महिषीमुपनिपातयन्ति (13, 7). The whole ceremony is different from the S'atapatha ceremony and is the latest absurdity developed in the Sutra period by the craze of sacrificial cult. And it seems that this Sutra or this portion is the latest of all.

The symbolical सर्वमेथ is similarly described next. After some minor particulars about preceding sacrifices we have in the end एकोत्तरा अहीना: from 2 to 11. त एते-पुरस्तादिष्ठिष्टामा उपारिष्टादतिरात्राः (30, 12).

The last two chapters describe महानत ceremony in a strange way. The Hotri prepares a अञ्चलक of उद्दर्भकर

tree and some वीणां (one शततंत्री) घाटककेरीरवघटरिकाः काण्डवी-णाः विच्छोराः इति पत्न्य उपकल्पयन्ति (3, 12). उपमखेन विच्छोरां बादयेत वादनेन काण्डवीणाम् । तां घाटशीरित्याचक्षते (15) is inexplicable.

There are four दुन्दुमिंड (big drums) and one भूमिदुन्दुमि made of a pit dug and covered with ox-hide. राजा वा राजमात्री वा is invited. He goes round the sacrificial shed with bow and arrows. A S'ūdra and Arva pair stand outside the gate and quarrel. This is the beginning of the ceremony which, however, consists of the reciting of various mantras from the Rigveda and Saman-singing for the three Savanas.

This Sutra quotes so many Riks by Pratikas and their number in the Sūkta that one is convinced that the Rigveda was then learnt by heart by almost every Brahmin; and just as quotations form the Bible by chapter and verse are easily understood in Christian countries, so the beginning of a verse or the name of the author of a Sukta was sufficient to indicate the mentra The metres and deities of mantras were also important and well-known.

This Sūtra by its simplicity and prolixity may, in its original forms, be older than Aśvalayana. No controversies almost exist and no savants are quoted except पैक्कय and कीषीताक. A pravaradhyaya is not given in it either added or original.

2 Latyayana

This Sutra has also been published in the Bibliotheca Indica Series of Calcutta. It is edited by Anandachandra Vedantavāgiša with the commentary of Agni-It consists of 10 chapters called Prapathakas subdivided into sections called Kandikas, 129 in all. It belongs to the Sāmaveda and is based on six works belonging to that Veda (प्रीढं बाह्यणमादिमम्'। षडाविंशास्यं दितीयं स्यात् ततः ^३सामविधिः ^४संहितोपनिषद्वेशा^{४,१६}). The contents are given in the Sanskrit preface as follows; Chapter I Paribhāshās and the election of priests. II Stomayogas in all sacrifices, III The ह्रव्यविधान in Shodasin, IV Vājibhakshaṇa, V Chāturmāsyas, Varuṇapraghāsa and drinking of सोमचमसङ, VI Sāmavidhāna and ह्रयक्षरप्रतिहार, VII चतुरक्षरप्रतिहार and गःयलीगःन, VIII Ekāha and Ahīnasattra ending with Vājapeya, IX Rājasūya, X Sattras and their Paribhāshās.

The editor has prefixed two indices, one an alphabhetical list of sūtras with their beginnings and the other an alphabetical list of their subjects.

Lātyāyana is probably the author of this Sūtra and his school is that of the Kauthumas. There is another Sūtra of the Rāṇāyanīyas named Drāhyāyaṇa. The editor had that Sūtra also before him and has noted the difference of ritual wherever there is any. Such difference is, however, limited and it may be believed that Drāhyāyaṇa followed Lātyāyana as an author. The editor has not given the total number of sūtras in the work; but it will appear from the following table:

cnap.	sec.	sutras.	chap.	sec.	sutras.	Tot	ai.
I	12	306	VI	12	219	sect.	sütrs.
\mathbf{II}	12	263	VII	13	235	129	2580
II1	12	245	VIII	12	292		
IV	12	245	IX I	12	269		
V	12	205	\mathbf{X} 2	0	305		

Eight chapters have 12 sections each and VII has one and X has 8 more.

This is the chief Sūtra of Sāmaveda and gives many details about Sāman-singing. There are several interesting statements in it and we give the following for the curious reader.

एकश्रुतिविधानानमंत्रान् कमीपि चोद्रातैव कुर्यादनादेशे (1, 14) prescribes एकश्रुति recitation even of mantras generally at sacrifice. The ऋतिक should be आर्थेय (of the same भवर), अनूचान, साधुचरण, वाङमी, अन्यूनाङ्ग, अनितिरिक्तांग, द्वयसत्, अनितिकृष्ण and अनितिश्वत, a long list of qualifications indeed (I, 1, 7). The sacrifical ground (देवयजन) is described as प्रागुदकप्रवण, लोमश, अवृक्ष and सम (I, 1, 12). A पत्नीशाला is mentioned in I, 2, 22. The authorities quoted are शांडिल्य, शाट्यायनिक (I, 2, 24), गोतम (I, 3, 3) and धनंजय (I, 3, 4). General procedure for all sacrifices down to the सारस्वत and तापश्चित mentioned in other Sūtras are given for सत्या. The Sūtra presupposes other Sūtras clearly.

In section 5 the first Sutra lays down that the प्रस्ताता is to sing परिसामानि सर्वत्रानादेशे. Details are then given as to what Saman. (रथन्तर, यज्ञायज्ञीय, वामेदव्य &c) is to be sung and from where. VI gives first how the parts are to be sung and how all are to join in the निधन. It then gives the other Samans to be sung (many names are given here), at the दीक्षणीय, प्रायणीय, उदयनीय, आतिथ्य and other rites of the higher sacrifices. Mahāvira is incidentally mentioned here. The succeeding sections describe him. The उद्भाता is to sing at ओंद्रंबरी and other rituals. Section 9 describes how the उदाता with the प्रस्ताता on the left and अतिहती on the right should sing at the आत:सवन. In 10 we find that a rite is pescribed while keeping the stone on the द्रोणकलश when it is desired that the राष्ट्र should be destroyed by the विश् (subjects). In 11 is given the order in which the priests should go out, viz. अध्वर्य, प्रस्तोता, उदाता, प्रतिहर्ता and ब्रह्मन and how they should come in and seat themselves facing a particular direction and then, looking at the junction of the sky with the earth, sing. Section 12 prescribes how these priests are to call upon one another and utter the Hinkara.

Chapter II gives further general provisions about the priests and their postures, fire, savanas, the seats of Kuśa grass, praising &c. निष्क्रम्य पश्चिमेनामीधीय बहिर्वेदि मूत्रं कुर्बात् shows the minuteness of the details given). In 7 is described the ceremony of giving a horse-chariot as Dakshinā and in 8 that of ascending a chariot. Section 10 describes how different Sāmans are to be sung with their Stobhas, and how the Yajamāna and his wife (पत्नी) are to join the singing in the निधन. स्थित् गोतम is cited as an authority who is different from गोतम. We thus have the first mention of authors called subsequently बुद्ध. In 11, the eating of धाना with सोम is detailed, and in 12 the अवभूष ceremony with its special Sāmans is described and then उपस्थान of the sunwith the well-known mantras उद्धरं तमसस्परि &c.

Chapter III relates to the Somayaga and its दीक्षा, the Adhvaryu giving it in every sattra (संत्रष्ठ सर्वोनस्वर्धेद्राक्षियेत 1, 5). The Samans to be recited at the time of churning are noted here and more mantras are here prescribed. Minute instructions are given as to the doors by which the priests and the sacrificer are to leave or enter the sacrificial shed. In describing the Mahāvrata a new Āchārya named भाष्टितायन is mentioned (9, 1).

Chapter IV gives details about वाणा which are interesting but which cannot be well understood. It has an ओदुम्बर बाण (shaft) with आउद्ध रोहित उत्तरलोम चर्मन् (I, 11) and तंत्रीड of ग्रंज or दर्भ in its ten holes and in touching it a strange mantra is given बदो बद बदा बदी बद मेरु: &c. (आ खा दुन्दुभीन् प्रवदन्तु वीणा इति ब्रूयात् I--11). An अलाबु वीणा is also mentioned in 2, 1 as also a महावीणा and शिल्वीणा. That the Sāman--singing was always to the accompaniment of a Viṇā, is clear from the Chhāndogya (ये वीणायां गायान्ति ते धनसनय: &c). The sacrificer's wife is to play on the काण्डवीणा and पिच्छोरा "called अपचण्टिका in the Brāhmaṇa" (?), but mildly (मृदु). A S'ūdra and a Vaisya (in his absence even a Brāhmaṇa or Kshatriya) standing outside the shed are to strike a round चर्मन् (परिमण्डल). A प्रेञ्चली or a prostitute attends outside facing the south.

and is abused. Other strange things take place, (obscene rites are common to all ancient Aryan peoples at certain times of rejoicings), at this opening ceremony of the sacrificial shed.

Chapters V to VII give details about Sāmans to be sung, their metres, the Stomas and Stobhas, how the Pratihāras of Sāmans of particular Rishis are to be sung, the seventh chapter being wholly concerned with the technique of the singing of the various Sāmans and their parts.

Chapter VIII gives the essentials of all higher sucrifices. The time of beginning is generally उद्गयन-पूर्वपक्ष-पूजाइ-सन्निपात: (अनादेशे). The Dīkshās are to be one, two, three or many (अपितित) as also Upasads (sittings) for all एकाइड such as ज्योतिष्टोम, अभिजित्, विश्वजित् &c. The Dakshiṇā is usually to be सहस्र. In Sādyaskra and other rites, different Dakshiṇās are prescribed including a bed, a carriage, cooking pots and two pairs of slaves. Real Soma being unobtainable and substitutes being unsavoury, we have the provision अभक्षयन्तो ऋत्विज्ञश्रमसोनवजित्रेयु:. After Avabhritha, the sacrificer is to stay for a night near a निषाद village, a new inexplicable provision.

For a देशन sacrifice, which is a magic one, the priests are to be वातीनानां योधानां पुत्राः sons of fighting Brahmin clans,—a new provision. Section 6 describes नात्यस्तोम. "Vrātyas are those who put on turbans on the wrong side etc." The Dakshinā is to be given to a मगधदेशीय नम्मन्यु (6, 28). The Vrātyas then can become निव्यन्ति and are fit to dine with: तेषां भुझीत कामं याजयेत (6, 30).

The ninth chapter begins with Rajasūya for kings, to commence on Phālguna S'uddha l (फाल्गुनीपक्षस्य प्रथमायाः— (the months are अमान्त apparently). The Dakshinā is द्वादरं शतं, a new figure, S'āṇḍilya prescribes Dikshā on त्रयोदशी of अपरपक्ष and दक्षिणा द्वात्रिश्ततं and सहस्र for each priest. The sacrificer should call his subordinate kings.

with their wealth (अवलानस्य ज्ञातीन् सवितानावहेयु:-I4). Their wealth should be divided into 3 parts, one to be given to the priests, one to Anusarpins, and the remaining third should be returned as presents. "These kings become chieftains and unfit for अभिषेत्र". This is a new provision; but it explains the importance of the Rājasūya and the action of the Pāṇḍavas in making a दिन्जिय and seeking large presents from conquered kings. The king should then go out of the sacrificial shed with shoes of deer-leather on and return with shoes of black-deer leather.

In section 2 दशपेय is described where ten drink besides the sacrificer. 26 is an important sūtra, showing that the rule of अनुलोम marriage, with the law of the caste of the father for the progeny, still obtained. giving their ancestry the priests were to stop with the अब्राह्मणी mother. Ten generations are to be recited and this explains how usually 10 generation are also mentioned in Smritis (दशावरान्दश परान् &c). Many व्रतं are prescribed for a whole year to the sacrificer and strangely enough, all people in the tig are not to shave except Brahmins - for a year (नास्यानाह्मणा राष्ट्रे वापयेरन् 25). In sections 3 and 4 minor sacrifices with new names are prescribed with their दक्षिणां (among which are chariots with four horses each worth a hundred 4, 15). A गोसव is prescribed for a Vaisya, आमेचार is levelled against kings and subjects also. In 5 Atiratras and Ahinas are shortly noticed with their special Samans. A new आचार्य by name शौचित्रक्ष is mentioned in 5, 22. In 8, a new sacrifice called शबलीहाम is prescribed for one who wishes to have one thousand heads of cattle (सहस्रपोश) in which after the homa, you go out to a forest and cry शबली, शबली. "If a dog or an ass answers, you will not get any cattle."

In sections 9, 10 and 11 is described the Asvamedha which is the most important of the higher sacrifices.

The description shows this Sutra to be a late one. Wehave first राजाश्वमेधन यजेत. In other Sutras we have सार्वभी-मोश्वमेधेन यजेत. then optionally any king. The details are few and relate chiefly to the उद्भाता. The definition of वावाता is new, महिषी being ignored. या पत्नीनां प्रियतमा यज-मानस्य सा वावाता; राजपुत्री makes it necessary that the वावाता should be a Rajput lady; and one more queen is mentioned, viz. परिवक्ती, who is described as अनपचिता (not honoured). The same mantras in reviling are used as elsewhere, in jocularity and the same riddle questions asked. The same exhorbitant Dakshinas are prescribed; but they are optionally substituted by सहस्र on the first and on the last days. Finally, we find अश्वमेघ made cheap, prescribed by a विकल्प, viz. पतन्तको ऽश्वमेघ: (vi, 6), in which the horse is made to roam for half a month only, instead of a year. Jyotishtoma is also made easier at the end.

In section 12 we have a जामदमय sacrifice prescribed which is not found elsewhere. Its दीक्षाs are to be विश्ति and उपसद्द द्वाद्श; and it is to be begun on the त्रयोदशी of the अमरपक्ष. The tithis mentioned in this. connection here and elsewhere are usually not अमावास्या or पूर्णिमा nor अष्टमी as in other Sūtras.

Chapter X describes Sattras, the Rātris of the sacrifices going up to 49 and then ব্ৰংব্যাই, with their special Sāmans and their নিখনs. A controversy among আন্তাৰ্থs, (কীনো is added here) is noticed regarding Sāmans and অক্তা verses. Controversies are constantly noted in this Sūtra and the opposing Achāryās usually are the same (not much known elsewhere). Reference is often made to a Brāhmaṇa (उत्तमानुपूर्व बाह्मणेन) which is, however, never named (4,13), a प्रवाह्मण being mentioned in 4, 8. Gavāmayana and other sacrifices are cursorily mentioned. বনু: বন্ধনি বা ব্রুবিস্থানা ব্যর্থান্থ (6,3) mentions there being 104 Bārhata Pragātha verses, addressed to

Indra, in the Rigveda, which is always called ব্যৱস্থ referring to its division into ten Mandalas. Rigveda was carefully studied by all and its verses counted and scanned. Other Pragathas are also referred to by number and rules are prescribed as to which-metred Pragathas are to be recited, in which month, at the Abhī-सर्वे सहर्तिका महावतन स्तुवीरन् (9, 1) requires all priests to join at महाब्रत; but otherwise the उद्याता is to sing all Samans. Another controversy is noted between ठामकायन and क्षेरकलिम about the Samans to be sung in कीण्डपायिनामयन, दक्षिशतवनीस्थन &c. Hereafter the procedure in several rituals is described in detail, which rather unusual after these highest sacrifices. अमञ्जर्भन पूर्वपक्षमितरं पौर्णमासेन (12,3) indicates पूर्णिमान्त months. Details about the प्रथ rites in तापाश्चेत for different deities are given in 13; 14 notes a difference of opinion as to whether अतिरात्र is सहस्रसाव्य (lasting for 1000 days). In sections 15, 16, 17, the सारस्वत sacrifice is detailed with its changing site each day as the sacrificer moves from place to place along the Sarasvatī and with its final rite at प्रश्न प्रस्तवण. "There should not be अवभय on the Sarasvatī; if need arises, water should be taken out of the river and used for bathing" is a new provision in this old sacrifice. In 18, we have a sacrifice on the ENEGI. one function in which is the tending of the cows of a Brahmin on its bank for one year. It appears that about this river there were very good pasture lands. In 19, a place named quin is mentioned in Kurukshetra and another named प्रसन्यसमें at the confluence of the Sarasvatī and the Drishadvatī, which shows the author's intimate acquaintance with Kurukshetra. The sacrificer after अवस्थ is not to return to any town but should retire from the world singing Samans. In 20, a new sacrifice named all is described and the work finishes with a reference to the mythical सहस्रां वृत्सर sacrifice of Prajapati.

3 Drahyayana.

This Srauta S'ūtra also belongs to the Sāmaveda and is said to appertain to its Rānāyanīya S'ākhā (Macd. p. 245) which is current in the Deccan. portion of it has been published in England J. N. Reuter, Ph. D. with a commentary by Dhanvin. In his introduction Dhanvin says that the Sūtra had been lost (लप्तमासीत्) but that he obtained a copy of it from the banks of the Tamraparni in the South (दक्षि-णस्यां ताम्रपण्यास्तीरे). This shows that the Sutra, as we have it, is a late one. As already stated, it has been compared with the Latyayana S'rauta Sûtra by the editor of the latter and found to differ very little from A cursory view shows that the same differing ancient authorities are quoted in it, viz. धानंजप्य, गीतम, But the wording of the Sutra and शाण्डिल्यायन &c. perhaps the arrangement is different. The Samavedins are numerous in the Tamil county and probably had their own Sutra enunciated in this form. Some interesting statements from it may, however, be given here.

Chapter II relates to Somayāga with details about दोशा, यहाशाला &c. as in Lāṭyāyaṇa but a new Āchārya is mentioned in describing महाजत named Bhaṇḍitāyana (9,1). Chapter IV describes the Vīṇā with the body made of उदुम्बर wood (ओटुम्बर) and strings (तन्त्री) of Muñja or Darbha &c. as in Lāṭyāyana. A prostitute (पृंश्वली) also attends outside facing the south, and she and a Brahmin abuse each other at the consecration of the sacrifical shed. In II Vājapeya is described in which everything is to be 17. यं बाह्मणा राजानश्च पुरस्कुवरिन स वाजपेयेन यजेत. Where only 17 cows are given as Dakshiṇā instead of 17000 or 1700, the sacrifice is called कुरुवाजपेय. Among the vratas of the sacrificer (वाजपेयो) is firstly अलबुति वर्तयेत् (12, 1) which means that he was to live thenceforth as a

soldier. The sixth and the seventh chapters are concernedwholly with the technique of Sāmans, the metres of the stomas, how the Prātihara of Sāmans of particular Rishis is to be suing and how the Nidhana &c., whichcan not be understood by laymen.

4 Jaiminīya

This S'rauta Sūtra, not mentioned by Macdonell, is mentioned by Winternitz (p. 279 n.) as published by D. Gaāstra, in Leyden, in 1906 with a preface and translation in Dutch. This shows how European scholars in all countries take great interest in Vedic literature. We give here a short summary of its contents for the curious reader from the original as printed by D. Gaāstra.

The Sūtra is short and relates to the Agnishtoma. It belongs to the Samaveda. It has only 26 Kandikas consisting of one long sentence each. At such sacrifices. S'ātyāyani holds that Dakshaṇā should not be settled at the outset, as it would mean sale of one's qualifications; but Tāṇḍya holds that it should be, as it brings great fruit. कृष्णजन्मानं न याजयेन्नपापकर्माणम्. Nor with कृष्णजन्म and पापकत Ritviks is remarkable. The sacrifice begins with the purchase of Soma and its coming to the यज्ञशाला in a royal chariot drawn by oxen and then entering the S'ālā by the eastern gate. Subrahmanya invokes Indra by a well-known mantra. It is then declared in the town श्वःस्त्या and next day अद्य सत्या. Details of Samans to be sung are then given such as बारवन्तीय, यज्ञायज्ञीय, वामदेव्य &c. The sacrificer's ancestry and his name are then declared अमृष्य प्रत्रः पीत्रः प्रपीत्रः THI and even female ancestors' names are declared. With various mantras, the soma is then pounded and strained without a drop being allowed to fall on the ground.

Each of the 16 priests has his duty and his mantra and when Soma is offered to them, they eat it in order: चम-सानुद्रह्णति हुतस्य भक्षयन्ति होतुर्भक्षमनुभक्षयन्ति, पुरोडाशान्भक्षयित्वा राजानं भक्षयित्वा वा पुरोडाशान्। (१४).

संतिष्ठते प्रातःसवनम् as in other Sutras finishes the morning ceremony. In describing the माध्यंदिनसवन and its दक्षिणा, it is prescribed आत्रेयाय प्रथमं गां दबात. After many details as to the Samans sung, we have संतिष्ठते माध्यंदिनं सवनम् । In the ritual of the तृतीयसवन, offerings are made to Pitris (पितामह and प्रपितामह). Going cut of the शाला the sacrificer looks at his shadow (लायां पर्यवेशेतातमनोडप्र-णाशाय). After अनुयाज, हारियोजन (?) including eating of दिघलेम with चमस or with hands (पाणिमिन् २०), पत्नीसंयाज and अवभृथ, the sacrifice ends. Many new mantras are prescribed suited to the action.

अझ्याधेय साम्नां गानकालमुपदेश्यामः and names of Sāmans to be sung at different times are also given. कोत्मुद is a new name found here. The least दक्षिणा is one cow (इति पेंक्सकम्).

Sāmans are given for प्रवर्ध (महाबीर is mentioned here also). as also for दीक्षणीया and प्रायणीया and when सोम is being brought (राजन्यानीयमान) and in सीन्नामणी and पशुबन्ध. पदाय पदाय अनुसंहरेदिखाचार्यसमयो यथाधीतान्येव गेयानीति अनुन्नाह्मणिनः refers to आचार्य and अनुन्नाह्मण, which makes this Sūtra late. Its treatment is that of a Paddhati; but it probably belongs to the Vedānga period from its Brāhmaṇa-like treatment and prescribing of new Mantras.

5- Hiranyakes'in alias Satyashadha.

This S'rauta Sūtra belongs to the Taittirīya Samhitā of the Black Yajurveda and the Hiranyakeši Tākhā. The author is named Satyāshādha. The Satra has just been completely published in the Anandasrama Series in several volumes. The Sūtra relates to all S'rauta sacrifices from Daráapūrņamāsa to the thousand years' sacrifice of Prajāpati. It is divided into twenty chapters called Praśnas, each Praśna being divided into eight Paṭalas or sections and each Paṭala consisting of many short sūtras. The last two chapters relate to उपाल्ला and other Grihya rites. They in fact form the Grihya-sūtra of this S'ākhā. This Sūtra is thus probably of a later date than Āpastamba the chapters of which are also called Praśnas and the last two chapters of which also form its Grihya.

We give a few extracts from this Sutra regarding the higher sacrifices for comparison. It begins with dictum. यज्ञस्त्रिभिवेंदेविंधीयते । ऋग्यजुःसामभिज्योंतिष्टामः । यज्ञवेंदेनामिहोत्रम् । ऋग्राजुम्या दर्शपूर्णमासी ॥. Atharvaveda is not brought in here. In the first ten Prasnas ordinary sacrifices being described, in 11 we have Chiti and in 12 Tāpaschit and Abhijit are described. In describing Vājapeya in 13 शरिद वाजपेथेन यजत ब्राह्मणो राजन्यो वा। सप्तदक्ष प्राजापत्यान् पश्चनुपाकरोति। दक्षिणाकाल सप्तदश स्थान् ददाति (३०). सतदश निष्कान् । सप्तदश हस्तिनः । सप्तदश गवां शतानि । सप्तदश महा-नसानि । सप्तदश रायनानि । सप्तदश वासांसि । सप्तदश दासान् । सप्तदश दासी: | (३२). As to Bājasūya we have राजा राजमूयेन यजेत स्वर्गकामः. In announcing him we have the old formula एव वः करवो राजेति ।. There is as usual a play with dice and the hearing of the शीन:शेप आख्यान. In Prasna 14 we have Asvamedha detailed. राज अमेधन यजेता। चैट्यां पौर्णमास्यां सांग्रहणेष्ट्या यजेत तस्या योत्तमामाबास्या तस्यां संज्ञान्या। (अरा-तयो रातयःशत्रुमित्रे). १ शतेन राजरत्रैः, २ अराजभिव्यैः, ३ सनप्रामणीिकः. ४ अत्यापहीत्। describes the guards. They may plunder a Brahmin who does not know अश्वमध ritual for खान पानम । यज्जनपदेऽनं तदेवामनम् । रथकारकुले वसतिः पारिष्ठतमारूयानं भौमन्यवम् । परिसमाप्ते वीणागणिनः पुराणिरिमं राजािनः &c. । त्रिंशिमासे। संत्रत्सरो भवति (१९). ऊर्ध्वमेकादशान्मासादश्वरथेऽत्रजेऽश्वं वस् ति (२०). Three queens only are mentioned: महिषी, वावाता, परिवृक्तो, Among ornaments for the last কাৰা বা is mentioned. This reference to glass seems strange (3, 22). द्यामूळेनाश्चं संज्ञपयन्ति स्पन्याभितिरान् पश्चन्. Com. explains इयामूळ as रूम्बळ. नाश्वस्य वपा विद्यते (?) (4, 21). येश्वस्य हुतस्य गन्धमाजिन्नन्ति सर्वे ते पुण्यळी-का भवन्ति ।. Purushamedha is next described, पञ्चाहः पुरुषमेधः। बाह्मणो राजा वा यः कामयेत सर्वेषां भूतानां ज्येष्टचं श्रष्टचं स्वाराज्यमाधि-पत्यं गच्छ्येमिति । मध्यमेऽहिन पौरुपमेधकान्पश्चनुत्वावरोति । पर्यनिक्तान्पुरुषानुदीचो नीत्योत्सज्याज्येन तद्देवता । ६, ९, १४. Chapter 15 gives Prāyaśchíttas and 16 and 17 द्वादशाह and एकाह अनिष्टोम. Chapter 18 gives the highest sacrifices like दार्श्वत and सहस्रसंवत्सर.

The Sūtra is voluminous and logical and seems to contain the latest development of S'rauta ritual. Mahīdhara, at the commencement of his commentary called वैजयन्ती, says that the S'ākhās of Tittiri are बोधायन, भारताज, आपरतस्य, हिरण्यकेशि, बाधूल (of Kerala) and बेखानस. He looks upon Hīraṇyakeśin and Satyāshāḍha as names of the same person. But this identification is doubtful, the former being always given as the name of the S'ākhā and the latter of the Sūtra.

III Description of preparations for As'vamedha in Baudhāyana S'rauta Sūtra (XV 14-16)

एनमेते कर्मकृत उपसंगच्छन्ते तक्षाणश्च रथकृतश्च मयस्कृतश्च कुलालाश्च द्वयाः कर्मारा नसकृतः सप्तमेऽयेता एस्तक्ष्णः सप्तास्ति ॥१३॥

एकशतं बैक्वानि दार्वीचितानि छिन्दत तानि प्रवक्त्यानि छ्त्वा चाथ चिनुतैकवि शाति यूपान् छिन्दतैकवि श्रात्यरत्नीन् राज्जुदालमां प्रषेतु-इवावुपस्थावानी षड् बैक्वान् षट् खादिरान् षट् पालाशान् पालाशमुपस्यं पालाशं पात्नीवतं पालाशं विशालयूपमेकतयानि दारुमयाणि पात्राणि कुरुत्त षद्भि श्रात् खुवान् दीर्षदण्डान् षट्त्रि शतमनुवेषान् दीर्षदण्डां अत्वारि वाष्टी वेन्द्राषासानि चतु अकाणि बृहच्चकाणि यथा समानि यूपांगेः स्युरपि मितान्या-रोहणमहानसानि कुरुतेकं वेतसं कटं कुरुताश्वस्योपस्तरणान्यथेतान् रथकृतः स श्रास्ति स्वरथं कुरुतापि मितान्रयान् कुरुतेतान् मयस्कृतान् स श्रास्त्यपरि-मितं चर्मण्यं कुरुतेत्यथेतान् कुलालान् संश्रास्ति यथैकवि श्रातिविधायात्रयः एवमिष्टकाः कुरुत तिस्रो महतीः कुम्भीः कुरुत यथाश्वं तूप्रं गोमृगमित्येतान् साङ्गान् श्रपयेयुरपरिमिताः स्थालीः कुरुतेति ॥ १४॥

श्र्येताग् बालावसङ्गतः ४५ शास्ति सायकं कुरुत सिश्चिमकल्पोदकं कुरुणं कुरुणस्तरू सुवर्णप् सुवर्णस्तरं चतुरः कालायसान् लाहायससरू अनुरो लोहायसान् कालायसस्य पट्विश्वात् सुवर्णान् रजतसरू पट्विश्वात् रजतान् सुवर्णसरू स्वर्णि च त्रयिश्वातं च सौवर्णानार् सूचीनां त्रीणि च वातानि त्रयक्षिश्वातं च राजतानां त्रीणि च वातानि त्रयक्षिश्वातं च सीसानायकं कालायसस्य कमण्डलुं कुरुताश्वतेजन्ये अपणायस्ययेतान् सुवर्णकृतः सभ्वान्ति परः यत भवापलान् निष्कान् कुरुत सुवर्णस्यन्यते महिन्नाः पात्रे कुरुतेव्यानि सीवर्णानि पात्राणि कुरुत यावस्यः पत्ययस्तावतः सीवर्णान् कुरुत रजतप्रस्थान् राजतान् वा सुवर्णअभ्यान् यावस्यः पत्यस्तावतः सीवर्णानि कुम्बकरीराणि कुरुत रजतशंकृति राजतानि वा सुवर्णस्यस्तावतः सीवर्णानि कुम्बकरीराणि कुरुत रजतशंकृति राजतानि वा सुवर्णस्यस्तान्त् राजतान्वा सुवर्णस्यस्तावतः सीवर्णानि कुम्बकरीराणि कुरुत रजतशंकृति राजतानि वा सुवर्णस्यम् राजतान्वा सुवर्णस्यस्तावतः सीवर्णानि क्षित्रवनं कुरुत रजतरास्नान् राजतान्वा सुवर्णस्यस्तान् एक सोवर्णं विधवनं कुरुत त्राणि सोवर्णानि धवित्राणि कुरुत रजतदण्डानि राजतानि वा सुवर्णदण्डानि सहस्रभः सौवर्णान् काचान् कुरुत राहस्त्रभः राजतान् सहस्रभः सामुद्रान् हिरण्मयं किश्यह हिरण्मयभः सहवीश्वर हिरण्मयभः संदान्मिति॥ १५ ॥

अथैताम्रखकृतः सभ्शास्त्यपिभितान्यष्टमानि कुरुतेत्यथास्यैतान्यन्यान्यु-पक्त्यानि भवन्ति शतं घृतचर्माणि शतं मधुचर्माणि शतं तण्डुलचर्माणि शतं पृथुकचर्माणि शतं लाज्जचर्माणि शतं करम्भचर्माणि शतं धाना-चर्माणि शतं उज्जचर्माणि शतं प्रसङ्घतण्डुल-चर्माणि शतं प्रसङ्घतण्डुल-चर्माणि शतं एकवि शतिप्रसित्रस्थातारः सभिष्ठा भवन्त्यात्मना द्वावि भशस्ते जनपदेभ्यः पश्चन् समचन्ति तथारूपान् यथारूपारते विदुर्शमेषु प्राम्यान् रक्षन्त्यरप्रयोज्ञात् पिथिषु गैरैयान् नदिषु नादेयान् पंजरेषु वयाभ्यस्य स्वस्थानिति ॥ १६॥

For Vājapeya.

वाजपेयेन यक्ष्यमाणो भवति स उपकल्पयते कृष्णाजिन स सुवर्णरजतो इक्मो बस्ताजिन स् शतमान स् हिरण्य सप्तदश सुवर्णानि कृष्णलानि हिरण्यपात्रं मधोः पूर्णमी दुम्बर रथ वक्ष सप्तदशार सप्तदशफलकां च श्रिति यूपं च तूपरं चतुरश्रि सप्तदशारिन गोधूमकलापीमुण्णीषं नेवार सप्तदश शराव सप्तदश वायव्यानि सप्तदश पृथुवुधानुपयामाम्सतं च बालं च सप्तदश निष्यान् सप्तदश वायव्यानि सप्तदश पृथुवुधानुपयामाम्सतं च बालं च सप्तदश निष्यान् सप्तदश वस्तानि सप्तदश वासोभारान् सप्तदश रथात् सप्तदश दुन्दुभीन् सप्तदश हिस्तनः सप्तदश दास्यः सप्तदशाना स् स् युक्तामि सप्तदश गवा शतानि वयसी वयसी वा सप्तदश सहस्रं वा तस्मिन् हि सर्वाणि वया स् सवन्ति चतुर्विश्वति पश्चनिकपञ्चाशतमश्वान् खादिरी वितृष्णीं वश्चेर्व्यूतां प्रज्ञाता अग्निष्टीभिकाः सम्माराः। (११-१)

IV The philosophical conversation among priests in As'vamedha. Ās'valā. S'. S. (X.9)

ब्रह्मोयं वदन्ति। कः स्विदेकाकी चरति क उ स्विजायते पुनः। किं स्विद्धि-मस्य भेषजं किं स्विदावपनं महत् इति होताष्वर्धं पुच्छति । सूर्य एकाकी नरति चन्द्रसा जायते पुनः । अग्निर्दिमस्य भेषज्ञसभिरावपने महदिति अव्याह । कि स्वित्सर्यसमं ज्योतिः कि समुद्रसमं सरः । कि स्वित्पृथिव्ये वर्षा-यान् कस्य मात्रः न विद्यते । इत्यध्वर्यहीतारं पृच्छति । सत्यं सूर्यसमं ज्योति-र्धाः समुद्रसम् सरः। इन्द्रः पृथिन्थै वर्षायान् गोस्तु मात्रा न विद्यते इति प्रत्याह । पुच्छामि त्वा चित्रये देवसख यदि त्वमत्र मनसा जगंथ । केषु विष्णुश्चिष पदेष्वस्थः केषु विश्वं भुवनमाविवेशेति ब्रह्मोद्गातार पृच्छस्यपि तेषु त्रिषु पदेष्वस्मि वेषुँ विश्वं भुवनमाविवेश । सद्यः पर्येमि पृथिवीमुत द्यामेकेनांगेन दिवो अस्य पृष्ठामिति प्रत्याह । केष्वन्तः पुरुष आविवेश कान्यन्तः पुरुष अर्पि-एतदब्रह्मचपह्नमास त्वा किं स्मिनः प्रतिवीचास्त्यत्रेत्युद्राता मह्माणं प्रच्छिति । पञ्चस्वन्तः पुरुष आविवेश तान्यन्तः पुरुष अर्पि-तानि । एतत्त्वात्र प्रतिवन्वानो अस्मिन् अमायया भवस्युत्तरोऽस्मिन्निखाह । प्राचमुपनिष्कम्येकैकशो यजमानं पृच्छति । पृच्छाभि त्वा परमन्तं पृथिक्या इतीयं वेदि: परो अन्तो पृथिन्या इति प्रलाह (as in T. B.). This is a good way of whiling away leisure time during a long sacrifice like the Asvamedha.

V The Pariplava in As'vamedha as described in As'valayana S'. S. (X 7) and its additions as compared with S'atapatha Br.

प्रथमेहिन मनुवंवस्वतस्तस्य मनुष्या विशस्त इम आसत इति गृहमे-धिन उपसमानीताः स्युः (Householders are required to be brought and seated there, to represent men) तानुपदिश-स्यूचो वेदः सोयमिति सूक्तं निगदेत् (a particular Sukta from the Rigveda is to be recited). द्वितीयेहिन यमो वेवसतस्तस्य पितरो विशस्त इम आसत इति स्थविराः उपसमानीताः स्युः (old men represent ancestors) तानुपदिशति यजुर्वेदो वेदः सोयमित्यनुवाकं निग-देत् (an Anuvāka from Yajurveda is to be recited). तृतीयहिन वरुण आदिस्यस्तस्य गन्धवो विशस्त इमे आसत इति युवानः शोय-ना उपसमानीताः स्युः (Young handsome men represent Gandharvas) तानुपादिशात्यथर्वाणो वेदः सोयामिति यद्भेषां निशान्तं (?) स्यातं निगदेत् . चतुर्थेह्नि सोमो वैष्णवः (?) तस्याप्सरसो विशस्ता इमा आसत इति यवतयः शोभना उपसमानीताः स्यः (Beautiful young womenbrought represent Apsarasas) ता उपदिशत्यांगिरसो वेद: सोयमिति य-द्धोरं निशांतं (?) स्यात् तं निगदेत्. पत्रमेहन्यर्बदः काद्रवेयस्तस्य सर्पा विशस्त इम आसत इति सर्पाः सर्पविद इत्युपसमानीताः स्यः (Serpents and serpentknowers should be brought) तानुपदिशति विषविद्यावेदं (S'ata. mentions सर्पवेद) सोयमिति विषविद्यां निगदेत् . षष्ठेहिन सुबरो वैश्रवण-स्तस्य रक्षांसि विशन्तानीमान्यासत इति सेलगाः पापकृत इत्युपसमानीताः स्यः (These Selagas are mentioned in A. B. and were probably real cannibals, inhabiting some Orissa jungles) तातुपादेशति पिशाचविदावेदः सोऽयमिति यस्किचित् पिशाचसंयुतं निशान्तं स्यात् तं निगदेत्. सन्तमहन्यसितो धान्वस्तस्यासुरा विशस्त इम आसत इति कुसीदिन उपसमानीताः स्युः (Money-lenders represent now Asuras!!!) तानुपदिशस्यसुरिवद्यावदः सोयमिति मायां काचित्कुर्यात् । अष्टमेइनि मत्स्यः साँमदस्तस्योदकेचरा विशस्त इम आसत इति मत्स्याः प्रजिष्ठा इत्युपसमानीता स्युः (Punjisthas are a Nishāda caste which kills fish) तानुपादेशति पुराणविद्यावेदः सोयमिति पुराणमाचक्षीत (In the S'ata. इतिहास is mentioned). नवमेऽद्दिन ताक्यों वैपश्चित-स्तस्य वर्यासि विशस्तानीमान्यासत इति वर्यासि ब्रह्मचारिण उपनीताः स्यः (Why pupils represent birds is a riddle) तानुपदिशतीतिहासी वैदः सोयमितीतिहासमाच्धीत. दशमेहनि धर्म इन्द्रस्तस्य देवा विशस्त इम आसत इति युवानः श्रोत्रिया अप्रतिप्राहका इत्युपसमानीताः स्यु: (Young men learned in the Vedas but taking no Dakshina properly represent gods) तानुपदिशति सामवेदां वेद: सोयमिति साम गा-यात् । एवमतत्पर्यायतः संवत्सरमाचक्षीत दशमी दशमी समापयन् संवत्सरान्ते दक्षित ॥

VI Alphabetical List of Sacrificial Words with their Meanings.

আনিদ্ধন sixth day's ceremony-ৰামি a wooden scrapper or shovel-ধানত proximity আৰৱ (অথব.), cutting of a divided sacrificial cake, অৰ্থান cutting. आमिक्षा mixture of boiled and coagulated milk.

आवाप mixing or arrangement of vessels.

ৰ্ভা a name of Agni.

उदवसानीय concluding day of सोम.

उपसद् a particular fire; a sacrificial festival preceding सुत्या and forming part of ज्योतिष्टोम.

उपह्नय Invitation.

करणी (a surd number) a particular square.

-कशिपु pillow,mat, cushion, (m.) food, (du.) food and clothing. काइमंत्र The tree Gremlin Anora.

किकिटा A particular exclamation.

कुंब enclosure round a place of sacrifice.

द्वंबकरीर a kind of head-dress for women, a thick petticoat. कृष्णल the black berry of a plant used as weight; a

copper or gold coin of that weight.

स्तर a square ground for receiving sacrificial vessels.

गय (acquired) a house; its contents; propety.

गार्भुत a bean of a plant called गार्भुत ; a kind of hay.

चतुरस्र four-cornered, square.

चमस a vessel for drinking Soma, a flat dish of wood with a handle.

ব্যান্ত wooden ring on the top of a sacrificial post.

चात्वाल a hole in the ground for constructing उत्तरवेदि.

छन्दे।मा The home of metres; the 8th, 9th and 10th days of the द्वादशाह; also name of Samans to be sung on those days.

तान्तप्त a ceremony in which तन्तपात् is praised.

ताप्य a garment made of a vegetable substance or plant named तप्य.

at the border of a garment.

त्रिकदक 3 Soma vessels. First 3 days of अभिद्रव.

द्रप्त a drop of Soma or semen.

धाया name of a Rik (Sämidhenī)

निनर्द prolonging a note in chanting; slurring or trilling. न्यूंस extension of ओ in recitation of Riks.

সূসি Variegated, dappled, piebald, a dappled cow, name of a Rishi, Mother of Maruts.

সহস Forepart of a charict, piled up. Name of 2nd S'astra.

श्रतेगर The responsive cry of Adhvaryu to the Hotri.

प्रायणीय Introductory libation, first day of सोम.

भाजी Rice gruel. भाजा a crooked stick.

मदन्ती Boiling water.

सनोता Name of a hymn in R (VI 1) having the word मनोता; and the deity praised in it.

मन्द्र Having a dewlap (cow or goat).

महावीर An archer, a sacri. fire or vessel, white horse.

मাজীন্তাথ Fond of ablution. 2 A name of S'iva. 3 Heap of earth on the right of Vedi on which secrificial vessels are cleansed.

मासर Mixture of yeast and grapes in which rice or millet has been boiled.

मेथिका The lowest seventh cubit of the sacrificial post.

मंथी a pillar in the middle of a threshing floor to which oxen are bound.

होहंगुणा Name of a brick used in building sacrifical altar, a Rik used at the building.

क्या Skin or membrane about viscera, secretion of bones. fat, marrow.

बिहार Consecration for sacrifice.

वेहत् A barren cow desiring a bull. A pregnant cow.

न्याहान A नौषट् for invocation of शंसानो &c.

श्रम्या A stick, a staff, a peg; a distance to which a stick or a peg can be thrown.

योबीर Name of a country, a मूर्च्छना in singing, a fruit like sour बेर, a gruel which Balhikas drink.

स्पन्या A net, a plait or string.

र्ज्य A flat wooden instrument shaped like a sword for stirring.

SECTION IV—BHAGAVADGĪTĀ.

History of Sanskrit Literature.

ŚRUTI PERIOD.

SECTION IV—BHAGAVADGITĀ.

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76	18	(IV 3, 120 p.)	(P. IV 3, 133)
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HISTORY OF

SANSKRIT LITERATURE.

SRUTI PERIOD.

SECTION IV—BHAGAVADGĪTĀ.

I THE TWO ANCIENT EPICS OF INDIA.

It goes without saying that during the Vedanga period extending over about one thousand years, many other works were written, besides the Vedangas already described, on various other subjects. We have thus already noted the Sūtras on monks and actors by Parāśara and Silāli, Karmanda and Kriśāśvin, now not extant. Most important among these other works must have been Itihasa and Purana mentioned as early as the Chhandogya Upanishad. The present Mahabharata and Rāmāvana developed out of Itihāsa; and the eighteen Puranas, by courtesy ascribed to Vyasa, evolved out of the one Purana which existed in the Vedānga period. The Srauta Sūtras state that Itihāsa and Purāna were read on two separate days in the Pāriplava recited during the leisure hours of longer sacrifices, as two distinct Vedas, though the Chhandogya speaks of Itihāsa and Purāṇa as one subject of study. The latest Śrauta Sūtra of Āśvalāyana states that to hear Purāṇa, Punjishthas (Nishadas who kill fish) were to be invited and to hear Itihāsa, students or Brahmachārins. Besides these we have mention of Ākhyānas in Upanishads; and in Pāṇini VI 2,103 we have Ākhyānas divided into eastern and western versions. The Kāśikā instances on this sūtra, पूर्वाचियमकम् and अपराधियमकम् and पूर्वायागम् and अपराधियमकम् and पूर्वायागम् and अपराधियमकम् and पूर्वायागम् in two versions, eastern and western, already existed in the days of Pāṇini and also an Ākhyāna of Yayāti. All such stories or Ākhyānas have now disappeared, being absorbed into the Rāmāyana and the Mahābhārata of the present day.

It may be conceded that the Rāmākhyāna spoken of by Pāṇini was by Valmīki-a Rishi name-and that it was subsequently developed into our present Rāmā-yaṇa by an unknown unskilful recaster, gifted, however, with some poetic talent, about 100 B. C. The various arguments by which we are led to this conclusion have been stated by us at length in our 'Riddle of the Rāmāyaṇa". Rāma is a Vedic king of note, being mentioned in R. X. 93,14 and his exile into Danḍa-kāraṇya, the abduction of his wife Sītā by the cannibal king of Lankā or Ceylon and its conquest by Rāma assisted by monkey and bear nations are historical events, not copied from Homer; and this history is very similar to that of the conquest of Mexico with its cannibal population under Montezuma, by the Spaniards

under Cortez, as detailed in our aforesaid work. We will not reiterate our arguments here, as the present Rāmāyaṇa falls outside the Vedānga period and the Rāmopākhyāna spoken of by Pāṇini no longer exists.

Going on to the Mahābhārata, we find that there is no mention of it in the Śrauta Sūtras or in Pāṇini. But Pāṇini knows a Bhārata, which word, meaning a work (प्रंप), may be derived by two sūtras of his, IV. 2,56 and IV. 3,87, the word first meaning a fight between Bhārata peoples and then a work describing this fight.* The word appears in VI. 2,38 but with a different meaning viz. a descendant of Bharata; and the word महाभारत which in this sūtra is stated to have a particular accent means most probably a great Bhārata warrior. The Kāśikā gives here the form महाभारत: and not महाभारतम्.

The Āsvalāyana Grīhya-Sūtra (c. 100 B. C.) mentions distinctly the two works, Bhārata and Mahābhārata separately, in धुमन्तुजेमिनिवेशान्यायनपेल-सूत्रभाष्यभारतमहाभारतधर्माचार्यास्तृत्यन्तु. This compound is often misunderstood; but there are in this sūtra, four authors and five works and hence each author must be taken to have written all the five works separately.† Anyhow Vaisampāyana is clearly the author of a Bhārata which probably existed in the Vedānga period. This was

^{*} संप्रामे प्रयोजनयोद्धृभ्यः and अधिकृत्य कृते प्रंथे-भारतयुद्धमाधिकृत्य प्रंथः भारतम्; so also यायातम्, सीभद्रम् &c.

[†] Indeed MBh, states that each of these four pupils of Vyasa enunciated a separate Sanhita of Bharata (संहिनास्तै: पृथक्त्वेन भारतस्य प्रकाशिना:—आदि •)

enlarged by Sauti into the present Mahābhārata about 250 B. C. as shown in our "Mahābhārata: a criticism." We will give here the substance of our arguments, noticing the views of European scholars, as without determining the date of the present Mahābhārata, the date of Bhārata and of Bhagavadgītā which survives and which is to be described in this section cannot be taken back to about 1200 B. C. as we take it. We must also try to settle the date of the momentous Bhārata fight which is the theme of this epic as the date of the first Bhārata epic must be somewhere between this date and the date of the Mahābhārata we now possess.

Many European scholars, notably German, have studied the Mahābhārata carefully since long and have recorded their different views on this subject. But the latest view is that the historical background of this epic is an ancient conflict between two neighbouring tribes "which cannot be later than the tenth century B. C." (Macd. p. 285). Winternitz nowhere gives his view of the date of this fight, but merely leaves his readers to deduce it from the fact that the fight is not mentioned in the Vedas and that its first mention is found in the Sankhayana Srauta Sutra. He, however, refutes the date 3102 B. C. assigned by ancient Indian tradition, from the beginning of the Kaliyuga, to the Bharata fight which took place a few months before it. This date, however, is the most probable one for the following reasons.

It is strange that European scholars are usually misled by the deceptive argument based on non-mention.

Non-mention argument can only be valid when mention is necessary. To argue because the Bharata fight is not mentioned in the Brahmanas, therefore it did not take place before the Brahmanas were written is illogical. The Brahmanas are religious works, written to elucidate sacrificial procedure; they are not works on history, so that the mention of the Bharata fight was bound to appear therein. The Satapatha mentions Janamejaya and his three brothers in its old part, in connection with the Asvamedha sacrifice; and we may infer from this mention that the Bharata battle must have been fought before the Satapatha was composed about 3000 B. C. as deduced from an astronomical statement in it. That there is no reference to this fight or its actors in the Rigveda Sanhitā is not strange, as the compilation of that Sanhita may be taken to have been made by Vyāsa before the fight. But there is a sūkta in the Rigveda by Devāpi who is uncle of Bhīshma and there is a reference to Somaka Sāhadeva, grandfather of Drupada, in another sukta. And in the Kuntāpa sūktas, not included in the Rigveda, but taken in the Atharvaveda, plainly composed later than the compilation of the Rigveda, there is praise of king Parikshit (राज्ञो विश्वजनीनस्य &c.). We may, thus, be sure that the fight took place soon after the compilation of the Rigveda and before the enunciation of the Satapatha Brāhmana and thus the date assigned by Indian astronomers viz. 3102 B. C. is beyond doubt the correct one.

This date is supported by a foreign piece of evidence viz. the statement of Megasthenes recorded

about 300 B.C. and taken by Pliny and Strabo in their works. This evidence has not been noticed by European scholars. The Greeks under Alexander collected: lists of dynasties in Egypt, Chaldaea and India and Pliny records that from Dyonysos to Sandracotos, the Indians count 154 kings and 6457 years and 3 months. Arrian. in Strabo gives 153 kings and 6042 years with three republics, one of 300 years and another of 120 years, and states that "Dyonysos preceded Herakles by 15 generations". Now Herakles is plainly Hari or Śrikrishna, as it is recorded by Megasthenes that Herakles was worshipped in the town of Methora (Mathura): and if we take 153-15=138 kings between him and Chandragupta, we have, taking 20 years average for a generation of kings, 2760 years between them. Thus the date of Śrikrishna comes to about 2760+310=3070 B. C.; Śrīkrishna died 36 years after the Bhārata fight and hence the date of the fight comes to 3106 B. C. which is practically the accepted date. It clearly seems that this tradition is as old as Megasthenes at least.

It is true that the Puranas contradict this date; for they record that between the birth of Parikshit and the coronation of the Nandas, the interval amounts to 1015 years (यावत्यरीक्षितो जन्म यावन्तन्दामिषेचनम् । एतद्वर्षसहस्रं तु क्षेयं प्रवृद्धोत्तरम्—Vayu and Bhāgavata). But the value of the Puranas as against that of the statement of Megasthenes, dated 300 B. C. is, in our view, nil. For the Puranas were reconstructed about 400 A. D. from traditions, mutilated and almost lost during the preceding Buddhist supremacy. Their value as regards,

Buddhist and Hindu recent dynasties being fresh in memory may be great; but for dynasties before the nine Nandas, they cannot be relied upon. On the other hand, the information collected by Greek historians in Egypt and Chaldaea has been found to be correct. The lists of Menatho have been confirmed from bricks. recently discovered. It is a pity that the list obtained in India by Megasthenes has been lost and we have only an aggregate statement of his, taken by Pliny and Strabo, Tilak who held, on the basis of the Puranas, that the Bhārata fight took place about 1015+400, Nanda's approximate date=1415 B. C., objected here that the average given by the figures of Megasthenes for one generation of kings is too large ($\frac{6457}{154}$ =42 nearly). But in calculating Śrikrishna's date, we have taken the usually accepted average per reign. And secondly, in all genealogies, the first mythical kings are always allotted long reigns. Thus in the Jewish genealogy, for 11 generations from Adam to Noah are allotted 2262 years, giving an average of 200 years nearly per generation; for 11 kings from Shem to Abraham, 1310 vears and for 12 kings from Moses to Solomon 408 years, giving an average of 130 and 34 years respectively. In Egypt also, the first kings were supposed to be gods, having long reigns and human kings begin with Menos. Similarly in India, from Dyonysos or Daksha to Śrikrishna, there were mythical kings and for these 15 kings (this is the number of generations actually given in MBh. Anusa. p. 147,25-33), we have between them 6457 - 2760=3697 years, giving an

average of 240 years per reign. This is acceptable for mythical reigns and the information given by Megasthenes is not absurd and as earlier, is more reliable than that of the Purāṇas. Then again, though the discrepancies among the Purāṇas may be disregarded, their assigning 1000 years to 32 kings of Brihadaśva's line in Magadha* is unreliable, firstly because this is a round number and secondly, no dynasty can last so long. The fact is that the Purāṇas knew not or had forgotten the dynasties which had intervened between Jarāsandha's line and the historical line of Śaiśunāgas in Buddha's days and they took the same Jarāsandha line to continue during the long interval.

It is really inexplicable how Tilak could take 1450 B. C. as the date of the Bhārata fight, when he himself assigned 1900 B. C. to the Maitryupanishad. For the Brihadāranyaka Upanishad, which must have preceded the latter by several centuries, mentions the Pārikshitas plainly and these four brothers named Janamejaya, Ugrasena &c. are mentioned in the Satapatha in its earlier portion. We think that the date 3102 B. C. assigned by long tradition to Bhārata fight is unquestionably consistent with the date assigned to the whole range of Vedic literature.

Passing on to the present Mahābhārata, we find the same tendency in European scholars to ignore patent facts and assign as late a date as possible. Win-

*द्वाजिंशच नृपात्होते भवितारा बृहद्रधात् । पूर्णे वर्षसङ्खं च तेर्षा राज्यं मार्षेष्यति ॥

ternitz puts "the transformation of the epic Mahabharata into our present compilation gradually between the 4th century B. C. and the fourth century A. D." (p. 475). Macdonell similarly states that a land-grant dated 462 A. D. "proves incontrovertably that the epic about 400 A. D. was practically of exactly the same length as given in Adiparvan" (p. 287). He is, however, candid enough to add that "further research in the writings of Northern Buddhists and their dated Chinese translations will enable us to put that date back by some centuries and we are justified in considering it likely that the great epic had become a didactic compendium by the beginning of our era." With such indefinite words as "some centuries, likely &c," European scholars at the utmost take the principal part of the present Mahābhārata to a little before A. D. It can, however, be positively proved that the epic with its present length of one lakh of verses was enunciated about 250 B. C. at the latest. In this view of ours, the late Lokamanya Tilak expressly agreed in his Gītārahasya.

It is firstly strange that European scholars, Hopkins included, take no account of the statement of the Greek traveller, Dion Chrysostom, who visited the Pāndya country about 50 A. D. that there was in India an Iliad of one lakh of verses. The reference is plainly to Mahābhārata and from his seeing the epic in Southern India, we may take it that the Iliad of one lakh of verses was enunciated by Sauti two or three centuries before in Naimishāranya in Northern India. This piece of

evidence long pointed out by Weber remains unnoticed and European scholars still stick to 400 A. D. as the earliest date when the epic acquired its present length. But the lowest limit is really the beginning of the Christian era at the latest.

Other facts take this lower limit to 200 B. C. though not as definitely as Dion Chrysostom's statement. seems almost certain that the present Mahābhārata is earlier than Patanjali and Bādarāyana. The Vedānta Sūtra of Bādarāvana contains a definite refutation of Buddhism and belongs to the time of the revival of Hinduism under Pushpamitra. The present Mahabhārata nowhere contains a refutation of Buddhism. Some tenets of Buddhism are noted but not condemned. Thus the Anugītā (Aśvamedha-p. 45) mentions that some believe that the soul does not exist after death: others that this is not certain,' and also that 'everything' is क्षाणिक or momentary'. Again in Santip. chap. 316. we have Yoga minutely described and in chap. 236 we are given the twelve Upakaranas of Yoga; in these things there are marked differences from the details. given in the Yogasūtra of Patanjali. Patanjali's name is not given anywhere in MBh.; indeed Yoga is said to have been taught by Hiranyagarbha though Sānkhya is said to have been taught by Kapila (Santisp. 348). Patanjali's name would certainly have been given when describing the teacher of Yoga, had he preceded the Mahabharata. Patanjali's date, even if we take him to be the author of Mahābhāshya, is 150 B. C. nearly the same as that of Bādarāyana and it seems certain that Mahābhārata.

with its extensive philosophical Śāntiparvan precedes 150 B. C.

The higher limit is afforded by the mention of Greeks, described as both valiant and learned. And as is generally conceded, Mahabharata, as at present, is subsequent to Alexander's invasion. Its therefore, lies between 320 and 150 B. C. It further seems that Sauti enunciated his enormous version* before Aśoka established Buddhism as the predominant religion of the country. Indeed Sauti probably extended Bhārata into Mahābhārata to counteract the influence of advancing Buddhism, as explained at length. in our महाभारतमीमांसा in Hindi; but we are not chiefly concerned with the question here. As Mahābhārata. contains nowhere a condemnation of Buddhism, its date may be taken to be about 250 B. C. while that of the Rāmāyana may be taken to be about 100 B. C. when Hinduism had triumphed under the Sungas and Buddha could be condemned as a thief (यथा हि चार: स तथा हि बुद्धः-Rāmāyana II).

As the Bhārata fight took place in 3102 B. C. and as the present Mahābhārata was enunciated about 250 B. C., we may safely place Bhārata, the intermediate stage of the epic, about 1400-1200 B. C., Vyāsa is said to have written a poem on the war soon after it, called Jaya or Victory; Vaišampāyana recited the poema afresh at the Sarpasatra of Janamejaya and Sauti recited it again in Naimshāranya to Saunaka and other Rishis.

^{*} एकं शतसहस्रं तु मयोक्तं वे निवोधत (MBh. I).

This story given in the Mahābhārata may be believed in effect. In the Mahābhārata itself, three beginnings are assigned to the poem and the length of the intermediate poem is given as 24000, that of the last edition being one lakh. It is wrongly supposed by Macdonell that the length of the original poem is given as 8800 verses. This figure is given respecting the Kūṭa-ślokas* put in by Sauti himself to exhibit his poetical powers. This trick can not belong to the Bhārata of Vaiśampāyana, much less to that of Vyāsa.

This date of the intervening Bhārata is practically admitted by all scholars; for it is conceded that Panini knew of a Bharata (Winternitz p. 317 n. on भारतः संप्रामः and वामुदेवार्जुनाभ्यां वुञ् &c.). It preceded the rise of Buddhism and Jainism as "many moral narratives and sayings in it are drawn upon from the 6th century B. C. by Buddhists and Jains" (Winternitz p. 474). It is wrong to say that "if an epic already existed in the 6th century, it was but little known in the native land of Buddhism" (ditto); for this contradicts the immediately preceding statement as also that "the Gathas in the Tripītaka betray an acquaintance with the Krishna legend" and "in the Jātaka-books appear पाण्डव, धनञ्जब याधिहिल, धनरह, विधुर and even the story of the marriage of द्रैपदी with five princes" (p. 472 ditto). This cannot be slight acquaintance and a Bhārata must surely have preceded Buddism and even Pānini. If the date of Pā-

^{*} प्रन्यप्रान्धि तदा चक्के and अही श्लोकसहस्राणि अही श्लोकशतानि च । अहं वेदी शुको बेत्ति संजयो वेत्ति वा न वा ।।

nini be taken to be ninth century B. C., it is probable that the Bhārata of Vaiśampāyana was composed in the 13th century B. C.; and the Bhagavadgītā which formed part of it can be assigned to about 1400-1200 B. C. as will be shown in the next chapter. Of course, if their author is Vaiśampāyana, he can not be a pupil of Vyāsa of the days of the Bhārata fight (3102 B. C.), but a descendant of his and the story of its recitation to Janamejaya, great-grand-son of Arjuna, is a fiction. Such fictions are often invented for magnifying the importance of a work and even Sauti's reciting MBh. to Saunaka is a similar fiction.

II BHAGAVADGITA

The Bhagavadgītā is conceded by all to be the brightest jewel in the crown of Sanskrit literature, Vedic and It has been studied and studied and studied classical. and always admired by scholars, ancient and modern. Indian and foreign. It has been translated into almost all the modern civilised languages of the world and savants have written commentaries and Bhāshyas on it from their various points of view, during two thousand years at least. The commentary of Jnanesvara, a Marathis poet-saint of 1390 A.D., is the most poetical and imaginative that has yet been written and deserves to be specially mentioned here. Being in the form of a dialogue. the Bhagavadgītā is most attractive in all its philosophical expositions and in this respect may be said to excel even the dialogues of Plato, though the latter's merit in putting opposite views in the most convincing form is unique in the literature of the world.

No praise of the poem can be higher than that bestowed on the Gātā by the German scholar Humboldt. It is as memorable as that bestowed on the Upanishads by Schöpenhaür and deserves to be taken down in every work on Sanskrit literature. "This episode in the Mahābhārata is the most beautiful, nay the only truly philosophical *poem* we can find in all the literatures known to us" (Winternitz. p. 427). Even Macdonell praises the language of the poem. "The beauty and

the power of the language in which the doctrine of doing one's duty is inculcated is unsurpassed in any other work in Indian literature." The Gītā is so catholic and at the same time so charming in its philosophical teaching that it is looked up to by thoughtful people of all nations and religions as a guide for their moral and religious beliefs. Christians, Mahomedans, Buddhists and Samajists, not to speak of Hindus, revere the book as teaching the best worship of God for all men, high and low, by performing one's duty, regardless of consequences and without love of fruit.

The Bhagavadgītā is highly praised in the Mahābhārata itself by Sauti. In introducing Anugītā which is an imitation of it, Sauti praises it skilfully, through the mouth of Śrīkrishna himself. Asked by Arjuna for the same teaching as had been given him at the beginning of the Bhārata fight, Śrīkrishna answers, "It is impossible for me to tell you again what I told you under the spiritual inspiration of that awful moment" (योगयुक्तेन चेनसा Aśva-p. 16). This is true of every great work, whether religious or philosophical. What is first written with the inspiration of the moment, on a subject firstly and fully grasped cannot be rewritten by the author himself. But this clearly shows also that the Bhagavadgītā is not Sauti's. Every dictum in the poem is constantly repeated throughout the MBh. and the stamp of the poem's philosophy is impressed on its whole philosophical thought. Even the वियह्मप-दर्शन in the middle of the Gītā is not Sauti's. As supported by many, it is not an interpolation by him, either from language or the grandness of the conception. In fact Sauti has copied it in the Udyogap. ch. 131, where he makes Śrikrishna give বিশ্বভাৰ to Dhritarāshtra not only absurdly but ineffectually.

It would be profane, in a way, to subject this religiophilosophical gem to critical examination and to discuss its genuineness or value. In a work on the history of Sanskrit Literature, this has, however, to be done and we proceed to notice the various topics which arise in such examination. The name of the poem is Bhagavadgītā or "the Song of the Lord". It is probably a name bestowed on it by Sauti; for there are more than one such songs or गीताः in MBh., called so, because they are sung or recited by some great teacher. The author's name Bhagavat is not that of any individual as thought by some, but is a title bestowed onevery spiritual teacher.* We find it in the Upanishads used for even a Kshatritya teacher (भगवा राजन) by Brahmin pupils. We know Buddha was also called Bhagawat for this very reason. The word refers here to-Vasudeva and not to an imaginary teacher named भगवत् subsequently identified with Srikrishna, as supposed by an Indian critic.

The work is divided into 18 chapters and each chapter has a separate name in the colophon which is very long; thus at the end of the first chapter we have इति श्रीमद्भगवद्गीतास उपनिषास महाविद्यायां योगशासे अर्जुनविषादो

^{*} See भूग एव भगवान् विज्ञापयत् &c. Chhandogya.

नाम प्रथमोऽध्यायः This is usually prefaced by the words शतसाहस्यां संहितायाम् referring to the fact that the Gitā is a part of the Mahābhārata. It seems probable that these names of chapters and this colophon are also very old, as old as Sauti, in other words as 250 B. C. They are invariably the same in all copies of the Gītā whether made by Sankara or Madhva writers and are thus certainly as old as 800 A. D. at least. But they probably go back to Sauti himself who has put this poem in the middle of his MBh. with all the reverence due to it. He properly describes it as Upanishad or esoteric teaching, Brahmavidvā or the doctrine of Brahman and Yogaśāstra or the science of ascetic practices, these subjects being actually treated in the Gītā, not as they are seen in Sankhya, Yoga and Vedanta Sutras now existing, but in the original shapes these philosophies had before Pānini.

The Gītā is supposed by some to be purposely divided into 18 chapters by the author because the Bhārata fight lasted for 18 days and the MBh. has 18 parvans. But this is quite untenable, because the poem is conceded by all to be more ancient than Mahābhārata itself. The identity of number is, we think, accidental; nay if an inference is to be drawn, it is that Sauti divided his MBh. into 18 parvans and made the fight last for 18 days, because the Gītā was divided into 18 chapters and not vice-versa.

The number of verses in the Gītā is 700, and one unimportant and unnecessary śloka is generally considered as interpolated viz. प्रकृति पुरुष वैव क्षेत्रं क्षेत्रक्षेत्र व । एत-

देवितामेच्छामि झानं जेयं च फेशव ।। at the beginning of the 13th chapter. This verse is probably added by some one to make the number of verses in the Gītā full 700, a number mentioned however by Sankara in his Bhashya. The Bombay version of MBh. gives two or three verses after the Gita is finished, stating that there are in it 620 verses spoken by Kesava, 57 by Arjuna, 67 by Sañiava and 1 by Dhritarāshtra. But this brings up the total to 745 and further in the Gita actually given in the MBh. of the Bombay version itself, the numbers are 573, 85, 44, and 1 respectively. These enumeration verses which are not found in the Gauda version are, therefore, inexplicable and may be Kūta-s'lokas by some unknown Deccani writer. Quite recently, a different version of the Gītā has been found in Southern India with a different total of verses and with 26 chapters. We can not take any account of this version, as it is opposed to the unanimous testimony of writers from ancient times in all parts of India.

The next question is whether the Gītā has grown to its present length, by several stages. It is supposed by many scholars that there are several contradictions in the Gītā and that some parts strike us as later additions. Rajaram Shastri Bhāgavat thought that the original Gītā ended in the middle of chapter II and the part from एम तेड भिहिता सांख्ये (II 39) is new. But this can not be accepted, though we admit that one feels a sort of hiatus at this sloka—a break in the context. This is so, we think, because we carry in our mind.

entirely different meanings of Sankhya, Yoga and Vedavada from their senses as understood by the writer of the Gita. We know that the present Sankhya philosophy is different from the philosophy as taught originally by Kapila himself. Indeed the philosophy has grown through several stages, the oldest, as it existed in the days of the Bhagavadgītā, being greatly different from the philosophy as taught in the MBh. itself in Santip. and this again vastly different from that taught in Sānkhyakārikā of Īśvara-Krishna, itself differing from that taught in the Sankhya Sutras which are as late as 1600 A. D. One proof of this would suffice; the line सांख्ये कतान्ते प्रोक्तानि सिद्धये सर्वकर्मणाम् (XVIII, 13) gives a tenet of the Sankhyas which is not found in their later works. Similarly Yoga means here Karmayoga and not Dhyana-The Vedavāda similarly is not the Vedavāda of Jaimini or Kumarila but the embryo of it. Our modern ideas, therefore, make us think that there is a break in the context at this verse. Secondly, the reply of Srikrishna upto verse II,32 merely teaches the immortality of the soul and the worldly considerations of honour. It contains no answer to Arjuna's question "Why should I fight instead of retiring from the world and attaining absolution". Thirdly, the Gītā would then contain nothing more than the doctrine of the immortality of the soul which was never denied by Arjuna or by any system of orthodox philosophy. The Gītā would then have had nothing new to tell and Srikrishna's teaching would have been absolutely of no value. Lastly, after all the grand background painted by the first chap-

ter, the principal picture would only be a tiny thing. As to the many contradictions pointed out by Rajaram Shastrī, they are in reality not such at all (e. g. तमेव चार्व पुरुषं प्रपद्ये which must be interpreted with इति added) and do not require to be noted at length. We are firmly of opinion that the Bhagavadgita, as it is, is a consistent whole written by one gifted author, in language simple vet deep, having all the force, freedom, and fervour of a spoken language. The 18th chapter comes at the end properly and in a way summarises the whole teaching of the work in a grand peroration. Justice Telang and several European scholars are of the same opinion. (see Telang's preface to his English translation of the Bhagavadgītā) and we think that every one who reads the Gītā again and again and pores over its meaning will be convinced that the Gītā did not end at the begining of एषा तेऽभिहिता सांख्य and that there are no interpolations in it.

The question is often asked, could such a long discussion have taken place on the battlefield? It goes without saying that none can know what Srikrishna actually said on the battle-field or indeed if any discussion did take place at all. It is an episode containing the teaching of Srikrishna, given in the words of Vaisampäyana or some other gifted author, represented as delivered on the battlefield, taking advantage of the momentous occasion and the natural feeling of dismay which would arise in a humane heart at the sight of thousands and hundreds of thousands of men of the same kith and

kin ready to fly at one another's throat in a civil war. Let us take a parallel instance from the Bible. The unique Sermon on the Mount which contains the highest moral teaching that a divinely inspired person can give can not be supposed to contain the actual words of Jesus Christ, historically speaking, though they are indeed divinely straight, simple and spiritual. Nay it can not be said that this whole teaching was delivered at one time or that it was really delivered on the top of a hill. We are, however, certain that the words are those of St. Matthew (chapters V and VI) and that they give the whole moral teaching of Jesus Christ. In the same manner it may be taken that the Bhagvadgītā composed by a gifted author contains the philosophical teaching of Srikrishna represented as delivered on the battle-field. The author discloses this when he says at the end अध्येष्यते च य इमं धर्म्ये संवादमावयोः, as Śrikrishna could not have uttered these words; for there was then no dialogue which could be read. Plainly the author is out here in recommending his work for reading by religiously minded persons.

Winternitz who has described and discussed the Bhagavadgītā in his "Indian Literature" at great length expresses the same views practically as Rajaram Shastri Bhāgavat. He thinks that the Gītā discloses three kinds of Krishņa, the hero Krishņa, the sage Krishņa and the god Krishņa and that the speech of sage Krishņa from एवा तेडिमिहिता सांख्ये is 'in irreconcileable contradiction with the preceding speech of the hero Krishņa (p. 429) ending with हती वा प्राप्यास स्वर्ग जिल्ला वा

भोक्यसे महीम् &c. We have already explained the appa... rent contradiction, the change of front or the break in the context here. We may further add that this idea of three Krishnas is like that of Dr. Bhandarkar who held that there were two Krishnas, the Krishna of the Gopis and the Krishna of the Gītā. But even Dr. Bhandarkar did not see three Krishnas in the Gītā itself. The idea is due to the inability of modern thinkers to understand how certain human beings can be looked upon as divine. A German scholar has remarked "When Jesus Christ says that 'He was with God in the beginning' he is. either a madman or an impostor." We will not discuss the question whether great religious teachers of the world were really divine beings or not; but we must point out that in ancient times and till recently, that perhaps even now, most people actually believed and believe that certain persons were Avatāras or incarnations. of the Deity or born of God and that, therefore, works like the Bhagavadgītā or the Bible written under this belief represented Krishna or Christ as both divine and human. We need not suppose that these two aspects in these works arose at different times or that these are any contradictions as such.

Describing in detail the three paths preached in the Gita for emancipation, "the path of dutiful desireless: action, the path of knowledge and the path of the love; of God," Winternitz again observes, "There are contradictions staring us in the face at every turn" (p. 433). "In one place Krishna is a personal god and in another he says he is in all beings and then quite about

ruptly he speaks of Brahman the highest principle of the monism of the Upanishads". 'Speaking of the Vedas in an almost scornful tone, in other passages he recommends sacrifices. The Sankhya and the Yoga philosophies are also taught, though opposed to the doctrine of unity taught by the Vedanta'. 'How can all these contradictions be explained?' Various scholars have offered various explanations. Some say "the work is poetical and mystical rather than logical, and philosophical". "Others explain that the poem has not come down to us in its original form but that, like most parts of the Mahābhārata, it has received its present form as a result of interpolations and revisions." "Garbe thinking the poem to be originially pantheistic made a direct attempt to reconstruct the poem by printing in small type what he thought to be interpola-Winternitz agrees with this view but thinks the poem to be originally theistic and that those portions which relate to Brahman and to ritual and sacrifices are interpolated, "I think too that the original Bhagavadgitā was much shorter and in the present form contains many interpolations and additions." cular he points out the fact that the Bhagavadgita has exactly eighteen chapters (p. 436), a fallacious view which we have already refuted.

We have given this long extract from Winternitz in order to place before the reader the arguments which lead him and other noted scholars of the West to hold the views they do. That this whole view is, on the face.

of it, unsound is clear from the fact that the Bhagavadgītā strikes one, throughout its length, with the beauty of its language and the charm of its poetry, a merit which no patched up work can possess. The supposed interpolations, necessarily made at different times, cannot have the same diction or dignity of expression, much less the same sonorous ring in its words or the same rhythm in its melody. The Gītā, it is clear, must be conceded to be the work of one gifted author as Justice Telang rightly maintained in the aforesaid preface to his translasion of the Gītā. But further, these apparent inconsistencies or contradictions of thought or teaching disappear, immediately we take into consideration the position of the Gītā by time in the history of the development of Indian philosophy and the vivid fact that the author of the Gītā strives to harmonise all the systems of thought that were current in its days. The Gītā plainly is not preached to teach the theistic doctrine alone. It clearly seeks to expound the different doctrines in vogue and to improve upon them in harmonizing all which is the special merit of its teaching. As Christ accepted the prophets, Moses and Elias, who had gone before him and their teaching, so also the Gītā accepts the teachings of the schools of thought which had already arisen; and like Christ it improves upon and harmonises them. Christ "came not to destroy but to fulfil" and go further. It would, therefore, be absurd to look upon the passages which speak of Brahman or those wherein the utility of sacrifice is preached, as interpolations.

Let us see what philosophies held the field when the Gītā was preached. We take the date of the Gītā, for reasons which will be presently given in detail, to lie between 2000 and 1000 B. C. i. e. after the date of the older 13 upanishads and before that of Panini. The philosophy of Brahman preached by these Upanishads was already well established and held the first place in public estimation. Indeed this philosophy with its usual concommitant Sanyāsa (पुत्रैषणायाश्च लोकेषणायाश्च व्यत्यायाथ भिक्षाचर्य चरन्ति) is shown to be on the brain of Arjuna, the protorype of the Indo-Aryan seeker after truth and the Bhagavadgītā begins with it and ends with it. In the first chapter Arjuna says it is better to be a sanyāsin and beg and after having heard all the preaching of Krishna Arjuna asks at the beginning of the last chapter "what do you mean by Sanyāsa then". The pāth of Sanyāsa was thus at the head of all systems of religious thought and Srikrishna had to describe it and Brahman. How he adds a touch of his own to this doctrine, it is not difficult to see (vide the description of श्वितप्रज्ञ &c.). But that Brahman is the final goal is accepted, as indeed the Gitā must accept, if it is to be an orthodox preaching, the Upanishads being always treated as revelation. paths finally lead to this goal; and how is shown in the summing up of the 18th chap. beginning with the verse सिध्दि प्राप्तो यथा ब्रह्म तथाप्रोति निबोध में (XVIII, 50). The path of sacrifice was the next important one; it was even older than the path of Sanyasa. It had, however, already been condemned partly but not wholly, and the Gita in its inimitably charming expressions, condemns the

Vedavada, namely the performance of sacrifice for the loveof enjoyment and Svarga. The cult of sacrifice was at its highest as seen in the Śrauta Sūtras, hundreds of sacrifices being prescribed for hundreds of desires. The Gītā condemns this कियाविशेषबहुलां भौगेश्वर्यगति प्रति॥ (II,43) cult of Srauta sacrifice. But as the oldest path, it could not condemn it altogether and Sri Krishna preaches ब्रह्मार्पणं ब्रह्महिव: etc; this is how the Gitā improves upon the old doctrine. Christ similarly accepts the law of Moses that a writ of divorce should be given but adds "do not divorce a wife except for adultery". The daily sacrifices must be performed to propitiate the gods who will requite by sending rain; but perform all sacrifices with the sense upon you that you are sacrificing to the highest Brahman in effect and that will secure salvation. The Gita could neither omit the path of Sanyasa nor the path of sacrifice, the two old orthodox paths; but taking them it improves upon them in detail.

The third philosophy which held the field was that of Sānkhya which had already come into exsitence in the days of the later Upanishads, Katha and Kena (vide Sec. II p. 172). The theory of Purusha and Prakriti and twenty four Tatvas, as well as of three Guṇas was well established, though not quite orthodox and the Gītā propounds this philosophy as it was then known, not the later Sānkhya of the MBh. or that of the Kātikās. It even expands the doctrine of the three Guṇas, by applying it to many things, vide chapters 17 and 18. But the Gītā improves upon and reconciles it with the ortho-

BHAKTĪ DOCTRINE EARLIER, PĀNOHARĀTRA LATER 27

dox systems by adding the entity of पुरुषोत्तम in the 15th a chapter which is the finest conception in the Gitā.

Lastly there was the path of Bhakti or devotion to God who in this path can not but be a personal God. It is sometimes supposed that this philosophy came into being after and in consequence of the Gītā. But, we think, it was already in existence though the latest. Indra and other Vedic gods were no doubt personal; but they had lost that character in the days of the Upanishads and had become phases merely of the highest impersonal Brahman. The human mind ordinarily can not do without a personal god and impersonal Brahman could not be grasped by the multitude (XII,5). The worship of Vāsudeva had already come into being among the common people viz. स्त्रियो वैश्यास्तथा श्रदा:; and the Gitā extols this theistic doctrine as राजित्या or राजग्रा and प्रत्यक्षावगम and मुस्ख. This doctrine was, however, different from the later yiqua system taught in the Narayaniya Ākhyāna of MBh. (Santip.), Nārāyana being the word adopted for the highest personal God. It is also not exactly the school of Bhagavatas called after Bhagavadgītā probably. This Vāsudeva cult is mentioned in Pānini also. In its inimitable way, the Gītā describes the path of devotion or Bhakti with its ideal of a personal God; but at the same time identilities this personal God with the impersonal Brahman. Under this view, there is no contradiction when Krishna says that he is immanent in all things but is not in them. This is another high. merit of the Gītā that it reconciles and combines the theistic and pantheistic doctrines. It is this which makes the Gītā the accepted revelation of all schools of thought and sects in India.

Combining these four doctrines together in one exquisite structure, the Bhagavadgītā stands before us like the Taj Mahal, one among the seven wonders of the world, a wonderful literary monument, inlaid with letters of gold on its four walls of shining marble, declaring the doctrines of Sanyāsa, Sacrifice, Sānkhya and Bhakti, having a gate in each side through which one can enter into the inner shrine of Brahman. In front of the chief gate, the gate of Vāsudeva, the terrace is gained by a slowly rising flight of steps on which may be seen multitudes of women, Sudras and Vaisvas; and a few Brahmins and Kshatriyas are also there. They are singing the praises of their favourite gods, Vibhūtis only of Vasudeva, and dancing with delight at the sight of the inner shrine. On the left side the terrace is gained only by three steps. Sankhyas and scientists are standing on this side trying by their reason to find out the entrance which remains screened and which is the Purushottama gate. the hind gate there are no steps to get on to the terrace; a few persons with the help of the ladder of Dhyāna have come upon the terrace and are sitting in various postures in meditation and with the help of Prāṇāyāma, Japa or other Yogic mental practice are trying to see through the difficult gate of Omkara. On the fourth side are Brahmins and Kshatriyas trying to get on to the terrace by the help of the trees of sacrifice

laden with luscious fruit, but falling down again and again in seizing it, the temptation being avoided by a few only whose gaze is fixed on the inner tabernacle through the नहार्यण gate. There are domes on the four sides; but the central cupola rises above these domes inscribed in golden letters with कर्मण्येवधिकारस्त मा फलेषु कदाचन । मा कर्मफलहेतुर्भू: मा ते संगा s स्तकर्मणि ॥.

Which of these four gates is favoured by the Gītā is a question on which famous Bhāshyakāras from Sankara onwards have differed. There is no question of efficacy, though it is also raised by some; for in our view all the doors are open and there are doors on every side and not on one side only. The inner taberncale can be approached through any door, though there is only one access to the inside of the tabernacle viz. true knowledge of God (ततो मां तत्त्वतो ज्ञात्वा विशते तदनन्तरम XVIII, 55). The only question is which is the easier way and the Gītā in plain terms describes भित्तयोग as the easiest (see राजविद्या &c.) But the Gītā always keeps Karmayoga in its front; its main object. is to induce Arjuna to fight and hence the main purpose of the Gita is to teach the path of Karmayoga namely the performance of one's duty, regardless of result. dedicating one's actions to God.

There are hundreds who are not attracted towards any one of these gates, engrossed with their own false philosophy and immersed in the pleasures of this world. Their atheistic philosophy is also noticed by the Gītā only to condemn it. For it had already come into existence and was known as the Bārhaspatya doctrine. It is stated in one of the Brāhmaṇas that Bṛihaspati, the

preceptor of Devas, taught this false doctrine to Asuras that they might be easily destroyed by the Devas. Asuras are Western Aryans and their materialism is noticed already in the Upanishads (see Sec. II p. 190). The tenets of this Āsura philosophy are glowingly described in XVI (अस्यमप्रतिष्ठं ते जगराहुरनीश्चरम् &c.). They even perform sacrifices, only for pomp and show. This division of men into two camps, the Daiva and the Āsura, is older than the Sāṅkhya Triguṇa theory and is naturally noticed in the Gītā, coming as it does in time nearer the Upanishads. It has been eclipsed by the Sānkhya doctrine and is not found in subsequent works. This chapter also can not, therefore, be supposed to be an interpolation.

We have thus far shown how the Bhagavadgītā is one consistent whole, the exquisite workmanship of one architect who has properly put in the several parts of it, and not a small edifice to which incongruous additions have been made from time to time. Nobody has ever maintained that the Gita was written before the Upanishads or the four Vedas. The argument, therefore, that the passages which speak of Brahman or sacrifice are interpolations is not understandable. could not but speak of Brahman, since even Western scholars place the Gita after the older Upanishads. And if it is taken much later, all the more reason there is why it should contain a description of the several doctrines then in vogue viz. the doctrine of Brahman, of sacrifice, of Bhakti, and of the Atheism of Barhaspatyas. Inasmuch as the Gita has condemned the last and

harmonised the other and orthodox doctrines with its own doctrine of dutiful desireless action, it has naturally been accepted as revelation by all the orthodox teachers of Hinduism. The three now recognised works on Vedānta philosophy, are, therefore, the ten Upanishads, the Bhagavadgītā (called both उपनिषद् and ब्रह्मीवर्ग) and the Vetānta Sūtra of Bādarāyaṇa. All the great teachers of Hindu philosophy from Śankara onwards have written Bhāshyas on these three works and established their claim to be recognised as teachers of philosophy.

The Bhagavadgītā, like every other book of revelation. has its miracle. The विश्वल्यदर्शन chapter is often looked upon as an interpolation; but it is not so and is a necessary part of this sacred book. It is on a par with the story of the transfiguration of Christ in the Bible (St. Matthew ch. 17). Nay, it is far more in consonance with the high imagination and poetry of the author of the Gītā than such ordinary miracles as are believed in in every country or people, the raising of the dead or the curing of the blind. Indeed the विश्वस्पद्धीन is not a miracle, विश्वह्य being seen with दिन्यन्थ: and not with human eyes as in the Bible. It is a prophetic vision, a cinema view of the whole uinverse, as the roll of time is unfolded before the mind's eye. Even Winternitz does not appear to look upon this whole chapter as interpolated. He takes objection to a few verses in it, "While I record my conviction that the author of the Gita was a great poet. I hesitate to attribute to him such verses as XI 26 in which the heroes of the epic are visioned as hanging between the teeth of the god" (p. 437). We

are afraid Winternitz has missed the Dhvani here viz. that there is praise here of the great valour of these heroes who are not easily swallowed even by the All-Devourer but who stick (not hang) in his teeth (विकान दशनान्तेषु).

It must be admitted that the Gītā being in verse and in the form of a dialogue, there is not that rigidity of treatment or precision of terms which is expected in a purely philosophical treatise. The word Yoga especially is used in different senses as also Brahman. But the difficulty arises because we are accustomed to use the two words in particular senses in modern times and are always obsessed with the Yogasūtras of Patanjali and the so-called Brahmasūtras of Bādārāyaṇa. If we could translate ourselves to the time when the Gītā was composed several hundreds of years before these Sūtras, nay even before the Sūtras of Pānini, when the Sanskrit languange was actually spoken, we shall be able to avoid this stumbling at the words योग, ब्रान् or आसन.

Finally it may be noticed that there are some sentences in the Gītā which strike us as riddles and are therefore susceptible of different meanings. Such sayings are, however, always pet with great teachers. Even in the Bible, we find sentences like 'He who loses his life shall save it and he who saves his life shall lose it ना निशा सर्वभूतानां तस्यां जागतिं संयमी or मिय सर्वाणि भूतानि and न च मत्स्यानि भूतानि contain a poetical Alankāra involving contrary statements. There are others which strike us as pithy sayings and which a great teacher usually utters. This is the chief reason why we see similar sayings in the Gītā and the Bible. We need not argue from this that either copied.

from the other, as Dr. Lorinser and others do. Similar thoughts and expressions occur to great poets and spiritual teachers in different countries and at different times independently. When, therefore, the Bible has 'Many prophets and kings have desired to see these things which ye see and have not seen them' (St. Luke X 24) or the Gītā has त्वदन्येन अदृष्टपूर्वम् and देवा अध्यस्य रूपस्य नित्यं दर्शनकांक्षिण: (XI 52), we need not suppose copying. And if copying is to be inferred, it would be that the Bible embodies sayings which had gone westwards through Buddhist teachers. For the Gītā, as we proceed to show in the following note, was preached long before Buddha and necessarily, therefore, before Christ. It is, however, true that the sentiments and sayings of the Gītā have been copied in the several pseudo-Gītās which have been composed after the true Gītā and put into various Purānas and other religious works. These have been noticed by Tilak in his Gītārahasya and they have not even approached the excellence and grandeur of the original.

NOTE I-THE DATE OF THE BHAGAVADGITA

European scholars generally place the Gītā at the beginning of the Christian era or a little earlier. They place the Mahābhārata itself about 400 A. D. and naturally Gītā, as an old part of it, is placed some centuries before this date. Winternitz thus gives 200 B. C. as the date of the old Gītā (p. 438). Before discussing the propriety of this European view, we will first notice and discuss the views of Tilak who discusses this subject at length in his Gītārahasya and who strangely enough puts the Gita about the fourth century B. C. only (p. 564). More strangely still, among the arguments detailed for this view, we find that the well-known Vedanta Sutras and the Bhagavadgītā are treated by him as two works by the same author viz. Badarayana who is, most strangely, looked upon as the person who has also put the Mahābhārata into its present form. It is inexplicable how so great an author as Tilak whose deep research and piercing acumen enabled him to fix, almost beyond doubt, the date of the compilation of the Rigveda, should have entertained such palpably absurd opinions. We have, therefore, to controvert these views at the outset, reluctantly no doubt, as we have generally accepted Tilak's views on many Vedic subjects.

Tilak properly holds that the Gītā formed part of the Bhārata which was expanded by some one into the present Mahābhārata. But he looks upon the present Gītā as expanded by this author from its original form which was much smaller than the present. The most striking verse according to him, added by this author, is ऋषिभर्षद्वा गीतं छन्त्राभिषितिये: पुथका बसस्वपदिश्वव हित्मिहिविनिश्चिते: ।। XIII 4. The ब्रह्मसूत्र mentioned here is the Vedāntasūtra of Bādarāyaṇa who is also treated as the author of the present Gītā and of the present Mahābhārata. For the Vedāntasūtra refers to the Gītā, though not directly yet un-

questionably, in many sūtras (e. g. I 2,3, I 3,23, II 1,36, II 3, 45, III 3,31, IV 1,15 and IV 2,21). The words स्मेश, स्वर्ग, स्वर्गन, स्वर्गने and अनुमान in the Vedāntasūtra refer to the Gītā alone, as appropriate statements from any other authorities are not quoted by any Bhāshyakāra or commentator or can be quoted by any person even now. This makes the Gītā precede the Sūtra of Bādarāyaṇa. But the Gītā referring to Brahmasūtra makes the latter precede Gītā. This difficulty is solved by Tilak by holding that Bādarāyaṇa is the author of both the extended Gītā and the Vedānta Sūtra.

It is no doubt certain that the Sūtra of Bādarāyana refers to the Gītā in the several sūtras noted above, for the Gītā was already a semi-divine (स्पृति) authority on Vedanta, next to the divine (शते) authority of the Upanishads. But it seems equally certain that the Gītā by the word बहासूत्र does not refer to the Sūtra of Bādarāyana. In the first place, it would not be acceptable that Badarayana, taking advantage of the established reputation of the Gītā as Smriti, would, in expanding it, introduce a verse mentioning his own Sutra as autho-No respectable author would do it, much less a spiritually minded orthodox author. Secondly, Badarayana is not mentioned anywhere in MBh. as having extended the Bharata. It is Sauti who expressly says that he has extended the Bharata to a hundred thousand verses (एकं शतसहस्रं त मयोक्तं ने नियोधन). It is a commmon wrong notion that Krishna Dvaipāyana and Bādarāyana are one and the same persons. rāyana has nothing to do with MBh. or the Gītā. The two names are confounded by the Marathi translator of the MBh. also. We even think that Badalayana is wrongly called Vyasa. Krishnadvaipāyana is alone Vyāsa (बेदान विच्यास यस्मात्स &c. MBh.). The gotra also is different as shown already, the former being पाराजार्थ i. e. बासिष्ठ and the latter, आंगिरस (Section III p. 18) Thirdly water in the verse quoted can not refer to the Vedanta

Sūtra of Bādārayana, notwithstanding the opinion of Rāmānuja, Madhva, Anandagiri and other great authorities. For the description of 'Kshetra,' given hereafter in the Gītā, differs entirely from that given in Vedantasutra (महाभूतान्यहंकारो बाद्धि-रव्यक्तमेव च and इच्छा द्वेषः सुखं दुःखं संघातश्चेतना धृतिः are not acceptable to the latter). To what does the word then refer? The answer is, to some Sūtra which was current before Pānini who mentions a भिश्चसूत्र by Pārāsarya and better still to the Upanishad sentences like सर्वे खाल्यदं ब्रह्म तज्जलानिति as held by Sankara. If we scan the sloka carefully, we find that it refers to two authorities viz. the many scattered Rik mantras (छन्टोभिविविधे: पथक) by Rishis and to हेतमहिनिश्चितै: पढै : or logical definite expressions (prose) by Rishis. Tilak and Prof. Amalnerkar who thought like him fail to notice that in the second line परे: is करणे तृतीया like छन्दोभि: in the first line and that ऋषिभि: (कर्तिर नृतीया) has to be repeated in the second line. The बहासत्रपदानि are by Rishis and hence refer to the Upanishads. Brahmasütra can not refer to the Sütra of Bādarāyana who is an Achārya and not a Rishi. There are many statements in the Upanishads which assign reasons and are definite like the one quoted above. We are, therefore, certain that there is no reference here to the Vedāntasūtra of Bādarāyana and that the Gītā precedes it by several centuries. Tilak also seems to have wrongly placed the Vedanta Sutra about the 4th century B. C. For, as stated already, it contains a refutation of Buddhist doctrines and may properly be assigned to the revival of Hindu supremacy in the days of Pushpamitra after the downfall of the Maurya dynasty. It is also hence wrong to suppose that Badarayana recast the MBh, which does not contain any refutation of Buddhism and also wrote the Vedānta Sūtra which refutes it.

The Gitā can not be a work of Bādarāyaṇa for many other reasons. The Gitā, even as we have it, does not condemn

Sankhya and Yoga philosophies; but they are expressly and perfectly refuted by Badarayana. Indeed, Sankhya was the first and chief opponent to be refuted, the प्रधानमञ्ज to be overthrown and Badarayana does it clearly and cogently and overthrows Yoga also with the same stroke (एतेन योग : प्रत्यक्तः). The Sankhya and Yoga thus overthrown are not the Sankhya and Yoga of the Gītā; they are their later developments, as stated already, described in the MBh. admiringly and approvingly. Sankhya and Yoga are orthodox and acceptable views in the present MBh, being nowhere controverted in it. Hence also Bādarāyana can not be the last recaster of MBh. nor of course, of the Gītā. Bādarāyana also refutes the Pāncharātra doctrine which is a late form of the Bhagavata doctrine first propounded by the Gītā. Lastly, he even controverts the opinion of the Gita in regard to the अचिशादिमार्ग and puts it on a lower level. This treatment of this subject in the Sutra will convince any one that Badarayana can not be the author of the Gītā and it is almost a riddle to us how Tilak did not or could not see all this.

Having wrongly looked upon Bādarāyaṇa as the author of the present Gītā and also of the present Mahābhārata from the verse discussed above, Tilak details other arguments in support of this view which to our mind lead exactly to the opposite conclusion. He rightly shows in his Gītārahasya (p. 507-520) that the Gītā is seven times referred to in the Mahābhārata itself, once even as हरिगाता (कथितो हरिगीतास समासविधकल्पत: Santip. 346, 12. Mark the plu: हरिगीतास समासविधकल्पत: santip. 346, 12. Mark the plu: हरिगीतास ते प्रकार p. 16, 9—13 through the mouth of Śrīkrishṇa himself. Complete sentences from the Gītā again recur at several places in MBh., 27 such instances being given by Tilak. Even thoughts are constantly repeated in the several philosophic disquisitions in the Mahābhārata. But these facts do not go to show that the

authors of the Gītā and the Mahābhārata are the same, as Tilak argues; but they show on the contrary that the author of the present MBh, had the whole Gitā before him as a work of established reputation. The same author would not praise one particular part of his own work in another part of it. Nay he would take care not to repeat his own sentences anywhere. Plainly the MBh. quotes and does not repeat sentences from the Gītā. It seems clear that the Gītā, as it is at present, existed and had attained reputation before the Mahābhārata was constructed in its present form. It must have formed part of the Bhārata of Vaisampāyana of 24000 verses which was extended into the present MBh, of one lakh. The first or original work 'Jaya' of Vyasa may have contained the germ of the Gītā. But Vaisampāyana's Bhārata, we are sure, contained the Gītā as it is today, because the विश्रह्मपदर्शन incident given in the middle of it which is often looked upon as an interpolation has been copied four times in MBh. as shown by Tilak, once ineffectually to Dhrtarashtra as noted already, next to Uttanka, again by Nārāyana to Nārada and by Rāma to Parasurāma (Asvam. p. 55, Santip. 339 and Vanap. 99). The original idea of the Gītā was grand and it was copied by Sauti thrice in his MBh.

On the basis of this wrong view, Tilak assigns the same date to the Gītā as to the present Māhabhārata which he fixes at about 300 B. C. (wrongly given as 500 before Śaka at p. 564 Gītārahasya) from arguments which we do not detail here, as they are already given in the preceding chapter. The original Gītā, Tilak places about 1400 B. C. as he takes this as the date of the Mahābhārata fight. We have already shown how this view also is wrong and the original Gītā of Vyāsa, if such existed, must be dated 3102 B. C. It was practically a negligible nucleus, and we have no idea of it. But the Bhagavadgītā which we possess and which must have here.

before the author of the present MBh. as a work of established fame may be placed about 1400 B. C. as we proceed to show.

That the Bhagavadgītā is later than the 13 old Upanishads is clear from the fact that it quotes sentences from Katha, Kena &c; and hence the higher limit for its date may be taken to be 1900 B. C., the date of Maitryupanishad fixed by To fix the lower limit, we have certain state-Tilak himself. ments in the विभात chapter (X) which must be taken to be a part of the present Gītā being looked upon as a later addition. We are not, therefore, taking our stand on a portion of the Gītā which may be taken to be its oldest part. There is also further proof that it formed part of the Gītā as it was before the recaster of MBh., because he has copied it, though not cleverly, in the Anugītā. There are many interesting statements in this chapter which we will notice by and by; but the most important one is मासानां मार्गशीर्षे। इसमाकर:. The mention of the name मार्गजाई makes it certain that the Gītā is later than 2000 B. C. the names of months in the Samhitā and even the Brahmana period being मधु, माधन and so on, as shown by S. B. Dixit. But this placing of Margasirsha at the head of the list of months by their new names makes it probable that the Gītā precedes Vedānga Jyotisha. From this Vedānga onwards, months commenced with Magha until the counting was again changed before the beginning of the Christian era and the month-list was made to commence with Chaitra, a method which still obtains. This argument is not, however, decisive; for even now month-reckoning from Margasirsha obtains in the north-western parts of India. In the Mahabharata itself, month-names are twice given in detailing Vishnuvrata and they begin with Margasirsha (Anu. p. 106 and 109). Even Amarakosha details month names beginning with Margasirsha It appears that when the new month-names based on the वेणांपासी नक्षत्र were introduced at the end of the Brahmana period. the month list began with Mārgaśīrsha and hence मासाना पार्ग्राचिंहं, logically speaking, indicates a time that ranges from 2000 B. C. to 200 B. C. the date of the Siddhāntas roughly, which introduced the Chaitra reckoning. But the next sentence ऋतूनां कुसुमाकर: gives us reason to hold that this verse belongs to a period which is nearer the earlier limit. If मार्ग्ह्याचे is the first month, the first season should be हेमन्त. After the Vedānga Jyotisha, the months began with माघ and the seasons with शिश्राचि and we actually find in अनुगीता, अवणादीनि नक्षत्राणि ऋतवः शिश्राचिष्यः (Asvam. p. 44,2) in consonance with the Vedānga Jyotisha. But the Gītā keeps up the old Vedic season reckoning in which बसन्त was the first season. This indicates that while the Gītā precedes, Anugītā follows Vedānga Jyotisha.

The sentence नक्षत्राणामहं राशी also suggests the same date. We know that the Vedic Aryans looked upon the moon as higher and more distant than the sun and indeed as one of the Nakshatras. Thus the Chhāndogya gives संवत्सराहाइत्यमाहित्याचन्द्र-मसं चन्द्रमसी वैशुनं &c. It does not seem that the Vedānga Jyotisha looked upon the sun as lower or nearer than the moon. This would also make the Gītā come nearer the Upanishads.

The most interesting verse in this chapter is महर्मन: साम पूर्वे स्वारो मनवस्त्रण ।।. The Siddhanta idea is that in a Kalpa there are fourteen Manus and not four; and hence this line has become a tough riddle to scholars. Tilak takes here three categories instead of two, viz. the seven Maharshis, the four preceding and the Manus (seven including the present Vaivasvata). But this interpretation is unsatisfactory, to say the least; the word four stands in it without its noun. Tilak takes here, as understood, the four Vyūhas given in the Nārāyaṇīya Ākhyāna. But Vāsudeva can not include himself among the four and cannot describe Vāsudeva as born from Vāsudeva. We may note here one more wrong view of Tilak viz. that "the

doctrine in the Nārāyanīya Ākhyāna is the same as that of the Gītā; indeed the Bhāgavata, Sātvata, Pāncharātra and Nārāyanīya Dharmas are one and are mentioned in and preceded the Gītā." This is clearly a mistaken view. When the Bhagavadgītā was recited, there was no doctrine of Chaturvyūha or any Vyūha current. The Bhakti doctrine then moved about Vasudeva alone of the Vrishnis and Arjuna of the Pandavas (XI 11). The doctrine subsequently developed into the Pancharatra and the relatives of Krishna were brought in viz. his brother Sankarshana, his son Pradyumna and his grandson Aniruddha. The Nārāvanivākhvāna in .MBh, refers to the Gītā respectfully and thus seems to have followed it after a long time. Nārāyana is the highest deity in it and not Vasudeva. The doctrine was first preached by Nārāyana to Nārada. The Paramparā of the Gītā is given in itself as Vasudeva and Vivasvat (इमं विवस्त्रते योगं &c). The Akhyāna also refers to प्रशत्ते and निशत्ते or सन्यास as taught in the Gītā while in it is taught प्रश्ति as superior. Lastly the doctrine is entirely theistic and rigidly Vedic, the inexplicable Avatara of Hayagrīva being conceived in it as reciting the four Vedas.

It seems, therefore, certain that the doctrine of the four Vyūhas did not exist at the time of the present Gītā nor the Nārāyaṇīya Ākhyāna and that, therefore, the words पूर्व चत्वार: क्षाध्यक्ष धार प्रतिवाद क्षाध्यक्ष क्षाध्यक्य क्षाध्यक्ष क्षाध्यक क्षाध्यक्ष क्षाध्यक क्षाध्यक क्षाध्यक क्षाध्यक क्ष

^{*}The Kalpa of 1000 yugas was an old idea and also the idea of many Manus. The theory of tive between Manvantaras gives the number 14 only which can fit in with 1000 and hence the theory of 14 Manus was started by the mathematical Siddhantas.

in the present MBh. nor in Vedanga Jyotisha. But that there are more Manus than one is accepted even in some hymns of the Rigveda. We find in the Valakhilya suktas 51 and 52 in Mandala VIII two Manus यथा मनी सांवरणी and यथा मनी विवस्वति. In a sukta in X we have got a सावण्ये or सावणि Manu different from सांबराण or son of Samvarana. Taking this into account and Sväyambhuva Manu mentioned in Yaska's Nirukhta, we may believe that at this period only four Manus were known. The idea of there being more Manus than one is natural to man, as law usually changes and different lawgivers arise and are accepted. Thus we can split the line into two parts महर्षय: सप्त पूर्वे and बात्वारी मनवस्तथा. The word पूर्वे still offers a difficulty. We may at once reject the later idea that there were different Saptarshis for different Manus; but ve requires that there were at least two sets of them, the earlier and the later. The Saptarshis are also Vedic and in interpreting the Vedic verse तस्यासत ऋषयः सप्त तीरे the Brihadaranyaka (II) names them as Gotama, Bharadvāja, Visvāmitra, Jamadagni, Vasishtha, Kāśyapa and Atri. They are all authors of Rigvedic hymns and they are identified with the seven stars in the Great Bear. But there are other Saptarshis both in ancient works and in the sky. Those mentioned in MBh. Santip. 341* are, however. not those intended in this verse though MBh. here plainly copies the above verse in the Gītā; for Pulastya, Pulaha and Kratu are not known to the Vedas and Bhrigu is not mentioned We know that Jamadagni is a descendant Bhrigu, while Gotama and Bharadvaja are descendants of Angiras. That Bhrigu and Angiras are not mentioned in the Upanishad list of Saptarshis makes it certain that there was another list of earlier Saptarshis, the first in the list

[&]quot; मशीचरङ्गिराञ्चानि : पुलस्त्य : पुलह : ऋतु : । वसिष्टश्च महात्मा वे नग्नः स्वावन्त्रकः स्त्रया ॥ त्रेया ऽही ताः प्रकृतयो यास लोकाः प्रतिष्ठिताः । अष्टान्यः प्रकृतिन्यत्र जाते विश्वमिदं जगन् ॥

being Bhrigu. Hence we can well understand महर्गाणा मुग्रसम् which follows in this very chapter. It is also worth noting, as stated elsewhere, that Pravara lists in all Śrauta Sūtras begin with Bhrigu. We may further note that this verse महर्गयः सम् पूर्वे &c is earlier than the Pravarādhyāyas in the Śrauta Sūtras. This verse seems to imply that the first seven Rishis were the progenitors of Brahmins and the four Manus, the progenitors of Kshatriyas and others. This naturally must have been the ancient view, as the professions of priesthood and princehood were from long hereditary. The Pravara chapters of Śrauta Sūtras, themselves later parts, give the same pravaras for Brahmins and Kshatriyas.

These two important statements viz. मासानां मार्गशिषिंऽ हमतुनां कुसमाकर : and महर्षय: सप्न पूर्वे चत्वारो मनवस्तथा । मभ्दावा मानसा ज्ञाता येषां लोकं इमा: प्रजा: 11 lead thus to the inference that the present Gītā precedes Vedānga Jyotisha and the Pravara chapters of the Srauta Sūtras. It thus belongs to the Vedanga period and is nearer to the Upanishads than to Pānini. There are other interesting statements also in this chapter which support the same inference. मरीचिर्मरुतामस्मि and पितणामर्थमा चास्मि remain unexplained, so far as we know, by any legend in the Puranas or Śrauta Sūtras. अक्षराणामकारोहिन is natural enough; but दुन्द्व: सामासिकस्य च is earlier than Pānini; for Pānini in his Sūtra, when speaking of compounds, always begins with quality. There are again several infractions of Panini's rules in the Gītā. Thus, as pointed out by Telang, ज्ञक्यअहं, सेनानीनां, नमस्कृत्वा. are un-Paninian. (युच्य may be added as also वर्तेयं, युच्यस्य and वर्ते being also found. For other infractions shown by Prof. Rajawade see note).

These facts and forms make Bhagavadgītā precede Pāṇini's grammar. The evidence of metre is also to the same effect. The longer-metred verses even in the eleventh chapter, supposed to be interpolated, do not follow the gana restrictions of

classical verse given by Pingala. They follow the Vedic rule of number of letters only. It would, therefore, seem that the Gītā is Pre-Pingala, in other words is nearer the Vedic times than classical times. It is possible to argue that even Kālidāsa in his Śākuntalā imitated the Vedic metre in a verse recited in praise of Agni. It goes without saying that a clever author might imitate Vedic metre even now. But it is more proper to hold that the author of the Gītā had no suchidea before him viz, of making his verses appear like Vedic verses. He composed such verses simply because the classical restrictions had not yet arisen. He wrote in times in which the Vedic metre was still in vogue. All such verses have 11 letters without restriction of short and long, as shown by Tilak, of the Trishtup metre of Vedic times.

Other statements also show that the author of the Gītā lived nearer the Vedic times. धूनं छल्यनामस्मि exalts gambling in a manner which can only belong to the Aryan society as it was in Vedic or even Vedānga times, when the अक्षाबाय was one of the eleven jewels of a king and when a game of dice was a necessary part of the Rājasūya celebration (Section III p. 30). Finally धुनीनामप्यहं ज्यास: does not place Vyāsa among Rishis as post-Vedic literature does. From all these arguments, we think we shall be justified in placing the Bhagavadgītā in the Vedānga period about 1400-1200 B. C. nearer to the Uparinshad: than to Pāṇini who is the last writer of the Vedānga period of about the ninth century B. C.

We may finally notice the contrary view of European scholars and examine the arguments by which they arrive at the 2nd century B. C., as the date of the Gītā. Winternitz observes (p. 437) "This didactic poem was originally, by its very nature, a text of the Bhāgavatas, wherein the doctrine of Bhakti, in conjunction with the Yoga doctrine of desireless action was taught on the foundation of Sānkhya. There is

evidence from inscriptions that, as early as the beginning of the 2nd century B. C., the religion of the Bhagavatas had found adherents even among the Greeks in Gandhara. It isperhaps not too bold to assume that the old Bhagavadgītā was written at about this time as an Upanishad of the Bhagavatas. Its language, style and metre too prove the work to be one of the earlier parts of the Mahābhārata. There are referencesto the Gītā in the later parts of the epic and the Anugītā (XIV 16-57) is surely nothing but a late imitation of the Gîtā than which it contains a still greater variety of doctrines." The extract is long but it shows how European scholars are aware of the various grounds which go, in our view, to prove a very ancient date for the Gītā. For if the Mahābhārata of one lakh of verses is itself about 250 B. C. including the Anugītā, the Bhagavadgītā which is a very old part of MBh. must be far older than 250 B. C. The language of the Gitā has all the force and freedom of a spoken language (verbal forms like व्यतितारिच्यति being usually used and not past participles as in classical Sanskrit); and thus the Gītā must belong to the times before Buddha. For in his days, the Prakrits had arisen and Sanskrit was a dead language. Hence also the Gītā must be earlier than 500 B. C. The evidence of unrestricted long and short in metre also shows the same thing asstated above. Speaking next of the argument based on the Besanagar inscription which records the erection of a Garudastambha by a Yavana Bhāgavata of the second century B. C. one is really surprised at the boldness of the guess that propably the old part of the Gītā was written at this time as an Upanishad of the Bhagavatas. If a Yavana of Gandhara was a Bhagavata in 150 B. C. the Upanishad of the Bhagavatas must be fearlessly taken several centuries before. But there are other and earlier historical records about the worship of Krishna Bhagavan. Megasthenes records that Krishna was

worshipped in Mathura. Alexander's historians record that Porus was a worshipper of Krishna and had his image with him in battle. To suppose that the Gītā as an Upanishad, nay its old part only, was written in the second century B.O. is thas a too cautions or timid guess. The view taken in the first sentence about the nature of the didactic poem is lastly incorrect; for the Bhagavadgīta is, in its nature, not a text of the Bhagavatas. Bhaktivoga comes in as one of the paths to -salvation like Karmayoga, Sanyāsayoga and Dhyānayoga. Indeed the Gītā reconciles all the paths then known for inciting Arjuna to action, desireless dutiful action, as Winternitz himself aptly puts it. And as was natural, each path takes the Gītā as its Upanishad; the Sanyasa of Sankhya and Vedanta, the Karmayoga of the Pancharatra, the Bhakti of Indian saints, the Dhyanayoga of Patanjali, But these are all subsequent developments and the Gītā was taught long before Pānini, when Vāsudeva and Arjuna were alone worshipped; and taking Pāṇini's date to be 900 B. C. its date may well be taken to be the second millennium B. C.

After having examined the arguments advanced by Winternitz thus far, it is not necessary to go into the arguments of other European, scholars which practically are the same as his. If the Gītā is an old part of the Mahābhārata, if it is pre-Buddha and pre-Pāṇini, one must come to the date we have arrived at. The dates assigned by Western scholars to the present MBh, and to Pāṇini are different from those we have assigned them. But the date of Buddha is certain and uncontroverted and as the Gītā is clearly pre-Buddha, as it does not mention any of his views as it was bound since it takes notice of all the then existing systems of thought, the date of the Gītā must at least be taken to be some centuries before 500 B, C.

NOTE 2:—THE DIFFERENT INTERPRETATIONS PUT ON THE BHAGAVADGĪTĀ

There are no different versions of the Gita, nor really different readings in it; yet the work is differently interpreted by great teachers and scholars along with the Upanishads and even the Vedantasutras of Badarayana which profess to settle the real meanings of both these two sacred authorities. The fact is that each teacher or scholar has a preconceived theory which he wishes to propound and the power of the Sanskrit language is such that he can do so, though with some difficulty, with the help of the grammar of Panini. The canons of Mīmānsā or the science of interpretation, developed to the highest in India (as is natural in a country believing in sacred word and relying upon it (शब्द्रप्रमाण) as the only guide in religious matters) can also be appealed to with success by men of powerful intellect. Ordinary readers are thus puzzled by these different interpretations and have eventually to fall back upon their own view of the teaching of the Gītā. Although we are not directly concerned with these different interpretations in this historical treatise, these may still be briefly given for the curious reader in this note, with remarks of our own.

It may be stated at the outset that the historical method of interpretation is lost sight of by all these interpreters, though it is, we think, the only proper method. We must first assign the Bhagvalgītā its proper position by time in the development of philosophic and religious thought in India and then interpret it, with reference to that development and not its later aspect. The Gītā, as shown in the above note, belongs to the Vedānga period during which Srauta Śūtras were composed and probably Sūtras on other subjects also. The four paths.

of emancipation then were, as stated already, the path of sacrifice, of Sanyasa taught by Vedanta and also by Sankhya, of concentration or Dhyana and Tapas, and of Bhakti. Even the Gfta itself says ध्यानेनात्मानि पश्यन्ति काचिद्यात्मानमात्मना । अन्य सार्व्यन योगेन कर्मयोगेण चापरे ॥ अन्ये त्वेवमजानन्त : श्रुत्वान्येभ्य उपासते ॥ तेऽपि चाति-तरन्त्येव मृत्युं श्रुतिपरायणाः ॥. The Gītā also describes minutely the different kinds of Yogins and Sanyasins in XII. All paths lead to the final goal according to the catholic teaching of the Gitā which seeks to reconcile and even combine them. must have been works of the nature of Sūtras on all these paths not yet developed to their present stage. There must thus have been a Sutra on Vedanta indicated by the word Brahma-Sūtra in XV, a Sūtra on Sānkhya indicated by सांख्ये कृताने श्रीकानि in XVII; a work on Dhyana Yoga indicated by अनी देशे प्रतिष्ठाप्य स्थिरमासनमात्मनः (VI), and of Pranayama (अपनि ज्ञव्हिति प्राणं, प्राणान प्राणेषु ज्वन्हाति &c). It is not probable that there was any work on Bhakti, as that path was not followed by intellectual Brahmins and Kshatriyas but was followed by women, Śūdras and also Papayonis and was, therefore, looked upon as inferior. It is the highest merit of the Gītā that it believes in the salvation of even these by the path of Bhakti; for the later-Brahmanic view embodied in Bādarāyana's Sūtra is opposed to this doctrine. (This also shows how the Gītā precedes that Sutra and is not the work of Badarayana). All such works have disappeared and historically speaking, the Gītā is the oldest work which we possess on Vedanta, on Sankhya, on Yoga and on Bhakti and not having any contemporary or previous work on these subjects for guidance or comparison, we are often unable correctly to understand the various statements of the Gītā on these subjects. Thus no satisfactory interpretation is given by any commentator, as Telang points out, of the line नेते सनी पार्थ जानन योगी महाति कश्चन. So also, we think, स्वभावोऽध्यात्म-मुच्यते and भूतभावोद्भवकरो विसर्गः कर्मसंजितः must remain riddles; for

they are sutralike definitions of अध्यात्म and कर्म, probably taken from some Vedanta Sutra of the time. The view of Badarayana's Vedanta is entirely different and can not explain these sentences. There are again several apparently simple expressions in the Gītā which are difficult to understand. Under the placid and charmingly flowing surface of the language of this sublime poem are hidden rocks of difficult passages against which he who dives deep finds his head broken. As an exampla of this may be given the verse श्रेयो हि ज्ञानमभ्यासाद् ज्ञनाद्ध्यानं, ाबिशिष्यते । ध्यानात्कर्मफ जत्यागं स्यागाच्छान्तिरनन्तरम् ॥ or आहरुक्षोर्धनेयोगं कर्म कारणमुच्यते । योगाह्यहस्य तस्यैव ज्ञासः कारणमुच्यते ॥· In our ffree rendering of the Gītā into Marathi, we have underlined all such apparently simple but really difficult expressions. These facts as also the use of some words like आत्मन, बहान, योग &c in different senses at different places have enabled thinkers to interpret the poem in different ways, in consonance with their own theories. In spite of this difficulty, however, we still think that the historical method of interpretation yields the view already expressed viz. that the Gītā describes and reconciles the four paths of emancipation and looks upon them as independently leading to the final goal of absorption into Brahman. The Gītā in all such disquisitions, however, keeps before it the immediate object of its preaching viz. inducing Arjuna to fight without fear of incurring sin. This historical method. in the absence of contemporary or previous works on Vedanta. Sānkhya and Yoga, has not been followed by thinkers and they have freely put their own different interpretations on this philosophical poem.

The oldest interpretation we possess is that of Sankara, the great advocate of Monism and Māyā. The Gītā, he thinks, presches Sanyāsa as all Karman is binding. Knowledge of Brahman can alone lead to absolution and the other paths described in the Gītā do not independently lead to

Moksha but lead into the path of Sanyāsa which alone finally secures absolution. Śankara refers to and refutes the ज्ञान-कर्मसुख्य theory which held the field in his time (this indicates how the Gītā was so interpreted before him). Śankara had thus to twist the meanings of many verses in the Gītā which plainly speak of Karmayoga as leading to absolution such as कर्मणेव हि संसिद्धिशास्थिता जनकाद्य:। оर संन्यास: कर्मयोगश्च नि:अयसकराद्धुश्मी: Nay more त्योस्तु कर्मसन्यासात्कर्मयोगो चिश्चित्यते plainly gives preference to Karmayoga. How could Śankara ignore the straight meaning of such passages? The answer is simple and there is no need of strongly animadverting Śankara's interpretation, as Tilak does. Śankara had to do it, owing to the exigencies of his time, as we proceed to show.

The human mind has, from the most ancient times, swung like a pendulum, between Sanyasa and Karman, not only in India but in all countries. Thus among the ancient Greeks, while in the days of Homer they were full of the enjoyment of this world, in the days of Pythagoras, the doctrine of renunciation was in the forefront, se much so that not only flesh and wine but even marriage was forbidden to a philosopher and Diogenes passed his days in a tub. Epicurus raised a protest and Epicurianism went to the other extreme and was eventually sensualism. The Jews were sacrificers of animals: Christ forbade animal sacrifice and taught, like the Gita, the golden mean between Sanyasa (vide 'those who have made themselves eunuchs for the sake of God) and Karman (but this is not for all). Sanvasa gained the upper hand soon and a monastic unmarried life was considered as leading to salvation. Monks and nuns established in monasteries, hereafter gained ascendency in Christianity so far that they eventually became supreme. Lather arese and protested and Protestantism denied Sanyasa and abolished all monasteries. It is new swinging to the other extreme of the pendulum and Karman and enjoyment are becoming the highest aims of human existence.

The history of the swinging of the mind between Sanyasa and Karman in India is exactly similar and may be noted at length. The Vedic Rishis were full of the joys of this world in their new settlements in India and they performed sacrifices and talked of Karman only in propitiating the Nature Deities they worshipped. This went on one side to the extremest point of the swing of the pendulum and the most fantastic sacrifices like georgy for the attainment of all desires were proposed. Sanyasa naturally came to the forefront and the Rishis, tired of such Karman, sought relief in renunciation in the Upanishads. Sanyāsa, however, also went to the other extreme and persons in every stage of life, began to resort to Sanyasa and to begging alms for subsistence. But surely there must be some one to give alms. Karman was thus necessary and imperative. The Gita was preached at this stage of the development of thought in India; and it properly lays stress on the golden mean; Sanyāsa was good, but Karman was also good, even better and both paths led to the highest goal.

We may note how the pendulum swung, after the Gitā, between the extremest points of Sanyāsa and Karman in India. Karman went to the opposite extreme point in later Śrauta-Sūtras, Lāṭyāyana prescribing an actual Purushamedha after the model of the Aśvamedha (Sec. III p.). Naturally Sanyāsa again came to the front in the days of Buddha and soon went to the other extreme. Sanyāsa was allowed to men and women, young and old, Brahmin and Śūdra, so that in Aśoka'a time, the land swarmed with monks and nuns leading a useless and even sinful life by begging and living in spacious comfortable Vihāras built by reverent kings and admiring laity.

There naturally was a rebound to the other side and Pushpamitra actually performed the condemned Asyamedha to empha-

sise the sanctity of the path of Karman. Indeed the Sūtras of Jaimini arose at this time and established Karman on an intellectual basis. There was again a set-back and Buddhism triumphed in the days of Kanishka. The Guptas, however, reestablished sacrifice, the first Chandragupta performing the long unperformed Asyamedha again. The Sabara Bhāshya probably belongs to this time; and Sanyāsa was so far condemned that it was treated as कलिवड्ये or prohibited in the Kali age. Harsha reestablished Sanyasa so much so that from his imperial throne, having given away everything, he begged like a Buddhist mork his daily dole of food. When his empire was overthrown after him, Karman supremacy was reestablished by Kumārīla who preached that Sanyāsa was not only Kalivarjya, but also not taught by the Vedas (त्रयो धर्मस्केषाः only-Chhand.). He not only reintroduced animal sacrifices but Śrāddhas with flesh offerings also. Śankara appeared at such a time and as Kumārila had gone to the extreme of Karman doctrine, he found it necessary to go to the other extreme and preach that there was no redemption through Karman but through Sanyasa alone. He had perforce to twist the meaning of some verses in the Gītā which upheld Karman, along with Sanyasa thus preaching the golden mean. The philosophy of Sankara going after him to the other extreme, there was a rebound again. Rāmānuja interpreted the Gītā differently in consonance with his doctrine of Bhakti joined to his विशिष्टदिन doctrine. Madhva interpreted the Gitā in a third way consistent with his an doctrine. Vallabla went still further and preached wordly enjoyment as the Bhakti of Srikrishna. In Maharashtra however, the Marathi poetsaints held fast to the teaching of Sankara and his interpretation of the Gra, till the exigencies of the present time led Tilak to preach the dootrine of Kargayoga again and offer a new interpretation of the Gita

Tilak in his Gītārahasya or 'The Secret of the Gītā' maintains that the Gītā preaches Karmayoga as the highest Yoga leading independently to salvation. It teaches Karman, action-duteous action,-both before the attainment of the knowledge of God and after it, while Sankara maintained that Karman before such knowledge was only useful for चित्रहादि andafter it must be abandoned to secure absolution attainable only by Sanyasa. Tilak has well explained the verses in favour of Karman of which Sankara had twisted the plain meaning; but it must be admitted that Tilak also has, in a few places, twisted the plain meaning of Yoga into Karmaryoga and has condemned the path of Sanyasa rather too strongly. In spite of this defect, it cannot but be said that Tilak has explained the whole Gita on the basis of Karmayoga, a task which Deussen thought very difficult and has thus rendered signal service to India and the world by focussing attention on the great philosophy of Karman, the doctrine of doing one's duty without desire of its fruit and dedicating one's actions to the Deity from whom all action springs. The theory of Gītārahasya has naturally become popular and the work has been. translated into most languages of India.

But how to decide what is one's duty in particular difficult circumstances is a question which confronts one seeking for guidance. The simple answer of the Gitā is that Scripture will show you your duty (तस्याच्छास्त्रं प्रमाणं ते कार्याकार्यव्याश्यतो) Tilak ingeniously interprets ज्ञास्त्र as referring to the Gitā itself and not श्रुति and स्मृति. One of the greatest merits of Gitārahasya is that it treats the Gitā as a work giving the Indian ethical theory. There is no work in Sanskrit literature on ethics as such, the Indo-Aryan sages having from the beginning embodied rules of conduct in sacred works. Western thinkers, ancient and modern, have thought deeply on moral philosophy, independently of religion and enum-

ciated their different doctrines. Modern moral philosophy propounds thus the doctrine of the greatest good of the greatest number as the basis of moral action. Tilak argues that the Gitā bases morality on the doctrine of Brahman pervading the world, आसीपन्य in other words or the precept "Do unto others as you would them do unto you."* Tilak's arguments (given at pp. 65–94 G. R.), we think, might well have been placed before the world in English, in a separate work on the ethics of the Gitā.

It may aptly be argued that the Gita must be treated as a work on ethics as evidenced by the last line of the Gītā तत्र श्री विजयो भूतिर्भ्वा नीतिर्मातिर्मम. Indeed the very question of Arjuna on which it is based is an ethical one. Arjuna asks "Is it proper, or in Indian phraseology, is it not sinful to kill thousands of our own kith and kin, though they are wrongfully attackiug us (आततायि), for the sake of a paltry kingdom? Is it not better, more beneficial to the world, that we should live by begging rather than kill them? (श्रेयो भोक्तं भेक्ष्यमपीह लोके does not necessarily involve any idea of Sanyasa; it merely means that the Pandavas might as well live like poor men by begging). This question is purely one of ethics. It has been agitating the thinkers of the whole world. Plato answered it as Arjuna would. "It is better to suffer" he maintained, "than to inflict suffering." Christ similarly said "if any one strikes you on the right cheek offer your other cheek also." The answer of the Gītā is different. After explaining all the view-points of philosophy on the ways to secure absolution, Śrikrishna says, "If without any pride (of power) in your heart and any prospect of profit clouding your mind, one kills the whole world, one does not incur the sin of killing." The Gita nodoubt preaches Ahinsā already preached by the Upanishads. It

^{*} यदन्येविहितं नेच्छेवात्मनः कर्म पूरुषः न तत्परेषु कर्तव्यं जानता प्रियमात्मनः MBh.

prescribes it for a Sanyāsin or a Yogin trying to reach the final goal of existence. Nay it treats Ahinsā as the first quality of देवी संपत् or the godly temperament. It even considers it as one of the steps to the highest knowledge (अमानित्यमद्भिष्यम्भिष्या शान्तिराजीवम् XIII 7). But it does not prescribe it in all circumstances and preaches the golden mean as in all other topics.

To return to the Gītārahasya, it riveted the attention of Indian thinkers on the philosophy taught in the Gītā and several scholars have formed new views and propounded new interpretations of the Gītā. Most notable is the view put forth by Mr. S. S. Budhiraj M. A. LL. B., Chief Judge of Kashmir, who holds that the Gītā preaches Buddhiyoga as the highest yoga and that the Gītā uses many words like की जाल in their Buddhitic senses, the Gītā being in his opinion post-Buddha. It is true that the word Buddhiyoga occurs in the Gītā three or four times as meaning a special condition of the reasoning mind leading to Moksha e.g. दहामि बुद्धियोगं तं येन मामप-यान्ति ते. But it is not mentioned as a निष्ठा or path and it is the last condition in every path. Secondly, the question is whether Buddhism borrows from the Gita or the latter from the former. That the Gītā precedes Mahāyānism is accepted by all and Hinayanism does not use Vedantic terms. It seems, therefore, certain that Mahayana Buddhism borrows words from the Gītā, its doctrines being infused with Vedantism. Lastly Nirvana is a word which is always used with Brahman in the Gītā; it does not mean Moksha as in Buddhism. but merely extinction. Though we thus differ from Mr. Budhiraj, it must be acknowledged that his deep study of Buddhism has enabled him to find out many words having the same sense as in Buddhism and has drawn the attention of scholars to the word Buddhiyoga used in a peculiar sense in the Gita.

Mr. V. G. Rele F. C. P. S. a medical practitioner of Bombay and author of the well-known philosophic book "The Mysterious Kundalini," propounds quite a new interpretation of the Gītā, arriving at Karmayoga by applying its teaching to the physical body and not the universe outside. Dr. Rele expounds the psychic organism of the human body from the several chapters of the Gītā itself, with the help of modern science and psychology. Most striking is his interpretation of the Asvattha tree, which he looks upon, not as an allegorical tree as is usually thought, but as the nervous system in the human body. Whether one agrees with his views or not, Dr. Rele has undoubtedly revealed, as only a medical man of philosophic turn of mind can do, another aspect of the greatness of the Gita, composed as it was in a period of intimate knowledge of the anatomy of the human body, acquired in Srauta animal sacrifices and has opened a new line of thought for students of this unique work.

NOTE 3—PROF. RAJAWADE ON THE GRAMMA-TIOAL INACOURACIES IN THE GĪTĀ.

Mr. V. K. Rajawade, retired Professor of Sanskrit, Fergusson College, Poons in a contribution to the Bhandarkar Memorial Volume 1917 points out the many inaccuracies, in the Gītā, of grammar as well as of poetics, as taught by Pānini and Mammata and finally observes: "The faults of grammar, style and reason in the Gītā are so many that when men assert that the Gītā has spoken the last word on ethics or that it is the best poem in the world, they lay themselves open to attack." "The tradition and faith, the ignorance and superstition, of the authors of such poems come into play and leave their impressions on their works" (p. 338). This singular opinion of Prof. Rajawade, opposed as it is to the almost unanimous. opinion of scholars, eastern and western, is, we think, due tothe fact that the Prof. forgets that the Gītā was written about five centuries before Panini and twenty before Mammata, both of whom base their rules on the language and poetry of their times and that, therefore, the Gītā cannot be criticised by the standard of Paninian grammar or Mammatian poetics. The maxim is well-known that the test of the pudding lies in the tasting thereof. Even Prof. Rajawade observes (p. 337) that "the test of good poetry lies in the increase and renewal of pleasure at every fresh perusal." A Sanskrit poet has also. said क्षणे क्षणे यस्त्रवताम्पेति तदेव रूपं रमणीयतायाः. Now the experience of hundreds is opposed to that of Prof. Rajawade on this point and. in spite of the inaccuracies which strike one who is full of the rules of Panini or the canons of Mammata, the Great strikes usas the most poetical philosophical work in the world both in thought and in language, as Humbolt and Macdonell, Tilak and Telang testify.

A recent (1922) European testimony may be fitly quoted here. Dr. St. Fr. Michalski Iwienski of Warsaw in the preface in French to his Bhagavadgīta says:—"The flight of its ideas and the grandeur of its conceptions, the gigantic amplitude of its images and the choice beauty of its language, the simplicity with which it solves the eternal enigmas and the profound clear wisdom of its teaching—all this makes one feel that we can scarcely find in the whole European literature, a book which we can put by the side of the Gītā."

Keeping aside this mistaken view of Prof. Rajawade, we may give here, for the curious reader, the several grammatical inaccuracies pointed out by him, per Pāṇini, "In Sanskrit ्युधू, यत्, रम्, पू, च्यु, स्था with अव, वृत् with नि and लुभू are Atmanepada; but in the Gita they are almost always used in Parasmaipada. निवासिच्यासे ought to be निवत्स्यसि, मा अचः means do not be pure; it ought to be मा शोच: or मा शोची: प्रसाविष्यध्वम is unaccountable; संयमता ought to be संयच्छता ; हे सखेति is a wrong sandhi (सखे इति). भियायाहास is wrong, it ought to be भियायाअहासि. (This is a mistake; it really is पियाय अहंसि). ज्ञाक्य अहं is wrong as also मध्येव अंत ऊर्ध्व where there is no sandhi made. स्नानीनाम् should be सेनान्याम्., सर्वेभ्यः पापकृत्तमः, तस्मात्प्रियकृत्तम and तेषां के योगवित्तमा: use wrong cases. तेषु and त्रा: is proper. ते प्रतिजाने does not come under प्रत्याङभ्यांश्रव: (Pān). So also योगस्य जिज्ञास: and धर्मस्य अश्रद्धधानाः should have योगं and धर्म. मद्भक्तेषु अभिधास्यति should have भक्तान्. आदिकर्त्रे नमेरन् should have कर्तारम्, कथयिष्यामि दिव्याः विभूत्य: ought to have विभूती: मे भुणु, मे निवोध appear Prakrit forms. एतत् संशय and इदं महिमानं may be misreadings. प्रकृते: िक्रयमाणानि कर्माणि ought to have कर्मणाम्-being followed by कर्ताहमिति मन्यते ॥ " (pp. 326, 327).

These inaccuracies, even if they be judged so by Pāṇini's later rules, being scattered over 700 verses, are so few that they do not jar on the reader's ear and do not in any way diminish the beauty of the language. When forms differing from those sanctioned by Pāṇini are found in works earlier than Pāṇini, they must be treated as sanctioned by the usage then current. When they appear in works undoubtedly later, specially when Sanskrit was a dead language, they are incorrect and indicate a very late date as also ignorance of the author as in the Purānas.

It must further be pointed out that even according to Pāṇini, in the Vedic language verbs take both padas and that vibhaktis are also not fixed in their meanings. The genitive especially is used in many senses. धर्मस्य अद्यानाः and योगस्य जिज्ञासः are not, therefore, wrong nor पृच्च or वर्तेषम्. Sandhi is optional except in Samāsa or Ekapada; and secondly, sandhi rules were not fixed in Vedic language yet; शक्य अहं नृलोके is thus not wrong, for we have in पुरुषस्क, पद्भयां ग्रहो अजायन. In short, the Gītā being far earlier than Pāṇini and nearer the Brāhmaṇas, these inaccuracies are really not such. Prof. Rajawade forgets the position of the Gītā in the development of the Sanskrit language and hence his wrong view.

It is unnecessary to give the poetical lapses of the Gītā pointed out by Prof. Rajawade as per Mammaṭa who is a far later writer than Pāṇini and whose canons are based on classical poetry written fifteen hundred years after the Gītā. Real poetry again is far less subject to fixed canons than language to grammar.

Lastly we may note Rajawade's view that "the Gitā unnecessarily uses expletives like च, एव, अपि, तु, ह, उत, and that another method of filling out lines is a host of unnecessary vocatives like इपीकेश, गुडाकेश, परंतप, कोन्तेय, धनंजय, अरिस्त्व." Does the Professor think that the Gita should only have used two vocatives স্থান and কুলা? The Professor is really unpoetical when he observes that সুন্ধাৰন মুনিয় ব্ৰহ্ম নান্দ্ৰ XI 5 is simply a string of expletives (useless vocatives?); for these are used with full meaning in praising the divine nature of Krishna. And meaningless expletives are used in all spoken languages (e. g. মুলা in Hindi or মুণ্ডা in Gujarati) and are found even in Rigyedic hymns (e. g. মু হুইবুমু মুল্ডানি). They always add a peculiar force to the spoken sentence.

III GENERAL CONDITION OF THE PEOPLE

(1400—900 B.C.)

From the Śrauta Sūtras and from Pāṇini as well as even the Bhagavadgītā, many facts can be culled which throw a light on the general condition of the people in the Vedānga period; and we propose in this chapter to describe it at length by the help of such facts. We give references for the leading statements; but it is needless to cite page and chapter for every statement as the facts mentioned in the preceding chapters must be fresh in the mind of the reader.

The Aryan land extended from Kabul to Kalinga and from the Himalayas to the Vindhya, Kurukshetra being. however, the centre of Arvan religion and civilization. There were three main divisions of the land viz. the east, the middle land and the north. The easternmost portions Anga, Vanga and Kalinga had a few Arvan settlements; but the Arvans there were looked down upon as degraded. Similarly on the west, Sind and Sauvīra were outside the pale of Aryan religion. The distant parts of the north were not staunch followers of the Arvan religion; especially the cult of Arvan sacrifice was not followed there and the people there were also looked down upon. In the mountainous country bordering on the south of this land, from the hills of Chhota Nagpur through the Vindhya and Satonda regions, as far west perhaps as Malwa, there were aboriginal prophes some of whom like the Solague were

even cannibals. Remnants of this race are now found in the Andamans only. The aboriginal population in the plain country was long incorporated into the political body as Śūdras, some of whom like the Nishādas lived in separate villages. The other Śūdras though allowed to live in towns and villages with the Aryans, were like the natives in South Africa, still kept apart in religious and political matters. The Sūdras were not allowed even to milk sacrificial cows; they were of course debarred from performing sacrifices. And they were not counted as Rashtra or part of the nation, the Kshatriyas and Vaisyas alone forming it and the Brahmins remaining above it. Thus, when the king was in sacrificial vrata, all the people in the country had to stop shaving except Brahmins (Lātyā. S. S. II 2, 5). . Certain degraded people with uncleanly habits and food were to reside outside the village or town; but they were Sūdras still and not called Panchamas as now in South India. Pāṇini divides Śūdras into निरवसित (kept out) and अनिरवसित(not kept out,)and we have not actually come across the word असूत्र्य. But even the Gitā calls these पापगोनि and the Chandalas certainly lived outside the villages. The others viz. the Nishādas and Sūdras were not to be talked to, much less touched, when the Aryan sacrificer had entered on the Dīkshā or ordainment for sacrifice.

All the kingdoms were small in extent except a few in the east where Sams is ruled. The number of peoples mentioned in Panini is very great and as stated already, many of them disappeared after Pāṇini. The name of the country as also of the king was usually the same as that of the people. There was thus identity of interest between them, though probably the despotic form of government generally obtained. There were, however, kings who ruled with the help of councils and they were called परिषद्भ (V 2,112 Pāṇ.). The kings who became troublesome were often driven away by the people; and these performed a particular sacrifice to regain kingship. The Kshatriyas sometimes oppressed the people or विश् and the latter sometimes gained the upperhand, as appears from sacrifices prescribed for the oppressed राजन्य or विश to gain supremacy. Brahmins, being outside, could perform these sacrifices for either of them.

The inhabitants were divided into the four well-known castes, Brahmins, Kshatriyas, Vaisyas and Sūdras, with their typical occupations priesthood, arms, agriculture and service respectively. These castes and their professions were hereditary and generally unchangeable.* Cattle-keeping however, was practised by all the three higher castes. Cows especially were prized by all; they in fact served as medium of exchange. The jungles were plentiful and pastures many. The Dārshadvata sacrifice was simply tending the cows of a Brahmin in Kurukshetra for a year. Thousands of cows were given as Dakshinā by kings who had their own herds. A three year old pregnant cow

^{* (}See माह्रो जाती कृत, VI 4,171, महायो अरचं महाय:)

(ঘটারা) was the best Dakshinā. Special sacrifices were laid down for a Vaisya who had lost his cattle. पशुकाम was as general as সনাকান, cattle and progeny being valuable in a newly settled agricultural country.*

The Kshatriyas formed the military caste; but some Brahmin tribes also followed the profession of arms, even as now, see आयुधजीविगोपालवा: under V 3,114 Pāṇini. This sūtra is very important. आयुधजीविसघाण विक्रांका के किल्लाका के प्राचित्रघाण विक्रांका के किल्लाका के प्राचित्रघाण के किल्लाका के किलाका के किल्लाका के किल्लाका के किल्लाका के किल्लाका के किल्लाका के किल्लाका के किलाका किलाका के किलाका किलाका के किलाका के किलाका के किलाका किलाका के किलाका के किलाका के किला

The intermediate castes had not yet probably arisen. Some caste sections had no doubt become degraded or ভবসূত (আক্তম্বান সী. মৃ.) The Rathakāra separately mentioned in Sūtras belonged to any of the three Varṇas. The Sūtagrāmaṇis were মুনাস্থান্ত্র (Kâṣ) and probably were also heads of villages but belonging to the Aryan race. The অসম্ভূতি are also a riddle; they were accountants and bankers and were probably Vaisyas. The words মূল and হল after Pāṇini became names of two

^{*} Lāṭyāyana prescribes a त्यलीहोम for one who wishes to possess one shousand beads of cattle (II, 8).

mixed castes in Smritis as marriages with lower caste women were gradually banned or became lowered in public estimation.

The verse क्षियो वैश्यास्त्या श्रद्धाः in the Gītā offers a riddle. If the Vaisyas were Aryans, they could learn the Vedas and could perform all sacrifices, Grihya and Śrauta; why are they classed with Sūdras?* Commentators offer no explanation. It seems to us that most Vaisyas had ceased to perform sacrifices, though, by the Sūtras, they were allowed to perform them. Their constant association with Śūdras and also greater mixture of race made them strangers to Vedic rites even in the Vedānga period. A strong proof of this may be found in the fact that they have only one gotra and pravara They had assigned them in the Pravaradhyayas. forgotten their original gotras and pravaras so necessary to be recited in sacrifices. The Vaisyas, however, later devised Nukhs, instead of gotras, to prevent further mixture of race and endogamy and have thus preserved the purity of their blood.

The word Pratyenas in Pāṇini VI 2, 60 offers another riddle. It has not been taken up in Smritis as indicative of any sub-caste. It means an armed soldier and it appears in the Brihadāranyaka in that sense. But his varņa was either Kshatriya or other. The word राजस्थेना: according to Pāṇini meant either राज: प्रयोगा: or राज बासी प्रयोगास according to its different accent.

^{*} In modern times, both Brahmins and Kehatriyas are ordimarily classed with Sudras, जीवाजीजनपूर्व वसी न असिमेन्स । असर

Marriages of Aryans with lower caste women, though in disfavour, were however allowed. For we find that there is a provision in Srauta Sūtras to the effect that a sacrificer, when observing vrata, should cohabit with his savarnā wife only, at best a lower caste wife, but never with the Sūdrā wife. This shows clearly that the Sūdrā wife had already come into disfavour as also other अस्त्रणे wives. This led in later times to the stoppage of Anuloma marriage altogether. The Pratiloma marriage was already long banned; the Bhagavadgītā strongly denounces वर्णसंकर by which word we must understand mixture of race in the Pratiloma way. प्रदुष्यन्ति कुलक्षिय: । सीधु दुशसु जायते वर्णसंकर: refers to Kulīna or noble ladies mating with lower class males.

Illegal connections were, of course, severely condemned. The institution of prostitutes was, however, countenanced, as a harlot (पुंचल) was invited at the consecration of a sacrificial shed. Adultery existed, as it does at all times and in all climes. But the sacrificer had to see that his wife who had to take part in the religious ceremony was pure. He, therefore, at the commencement of the sacrifice, bluntly asked his wife पत्ने कति ते जाराः? If the wife, in the presence of the sacred fire, was conscientious enough to name some persons, oblations with suitable mantras were thrown into the fire to destroy them. The confession probably purified the wife and the sacrifice proceeded.

The inference that intermediate castes arose after Panini is supported by an interesting sutra of his

emended by a Vartika of Katyayana (noticed by V. K. Rajawade also in his Marathi preface to the त्यामाध्यसम्). The sutra VIII 2,83 (प्रत्यभिवादेऽहाडे) provides that when a Kshatriya or Vaisva salutes a Brahmin, in returning the salute or in blessing him, the last vowel of the vocative should be changed to sa, but not for a Sūdra. as it did not require a tone of respect * Kātyāyana's Vārtikas to this give two provises (1) ख्रियां प्रतिषेधो वक्तव्यः which states that for women the ga tone of respect should not be used. This proves that women had descended in estimation as they often belonged to lower castes. (2) भो राजन्यविशां वेति वक्तव्यम्। This means that the tone of respect was optional in returning the salutation of a Kshatriya or Vaiśya.* These also had somewhat desecnded in estimation after Pānini and before Kātyāvana; for we have seen that there were incursions of foreign races and these had been admitted as Vrātya. Kshatriyas or Vaisyas. Many being born of Sūdra wives had probably been assigned an intermediate position. Thirdly, many had turned Buddhists and did not deserve respect from orthodox Aryans. This sutra with its Vartikas is historically very important, as evidencing social changes among the people of Northern India.

The artisans in villages and towns were probably of the Vaisya caste, though the indication given by Pāṇini VI 2,60 is faint. The Kāsikā gives instances

^{*} आयुष्मानोधि देवदत्त ३ for a Brahmin but आयुष्मानोधि तुषजकः २ आयुष्माने भव गार्गि । ३ आयुष्मानेधीन्द्रधर्मन् ३ or आयुष्मानेधीन्द्रधर्मन् and आयुष्मानेधीन्द्रधर्मित् । Kāsikā,

on the sutra प्राप्तः शिल्पिन, such as प्रामकुलालः and प्राप्तनापितः and on राजा च प्रशंसायाम् (VI 2,61) as राजनापिनः both having particular accents.

Marriage customs seem to have remained the same as in Sanhitā and Brāhmana times. We have elsewhere noted that Bhrūnahatyā was now treated as one of the seven heinous sins and this proves that girls married late and often going astray before marriage, resorted to procuring abortion. And this appears to have led to early marriages. We find a faint indication in Panini that there were early marriages already in his days. VI 4,84 (वर्षाभ्वश्व) of Pāṇini is added to by Kātyāyana by प्रनभ्वेश्वेति वक्तन्यम्. It cannot be argued that Pāṇini failed to notice that the word पुनर्भ also behaved like वर्षाम्. The proper inference is that the word पुनर्भ had no existence in the days of Pānini. In Vedic times along with late marriages, there was prohibition of widowmarriage as among the ancient Germans. The class of पुनर्भेs probably arose later as a result of early marriage coming into vogue and early married young girls becoming widows were naturally allowed to remarry (सा चेदक्षतयोनिः स्यात् पुनःसंस्कारमहिति-Manu).

We have seen that the Aryans often married women from lower classes and that their progeny was treated as belonging to the varna of the father. This is shown even in the latest Lātyāyana Śrauta Sūtra which gives a rule that every priest must recite his pedigree to the 14th generation, but should stop at an ancestress who was not a Brāhmaṇī (IX 2, 6). This leaves Mann's

dictum untouched that the varna of the progeny is that of the father in two lower wives only (द्वोरातमस्य जायते). The rule also shows how the pedigree of Brahmins upto the 14th generation was scrutinised and why the number 14 subsequently became important in Smritis in determining Sāpindya or cognateship.

Going on to the food and drink of the people, we find पान देशे a very interesting sutra in Pānini (XII 4,9) as the favourite drinks of different peoples are given under it by the Kāśikā as क्षीरपाणा उद्यीनतः, सुरापाणाः प्राच्याः, सीवीरपाणा बाल्हीका: and कषायपाणा गान्धारा:. The Usinaras in the Panjab drank milk; the easterners like Maithilas drank liquor; the Bālhīkas drank सोवार (sour gruel) and the Gandharas drank क्वाय, probably tea. Even now, the Panjabis drink milk and the Maithilas drink liquor. But drinking liquor was already looked upon as one of the five greatest sins and was avoided by all Aryans. At the Sautrāmani sacrifice, liquor had to be offered to Indra who, like the German lord, was the patron of beef and beer. The sacrificer and priests had to take हवि:शेष. A substitute was, however, provided soon in प्राणमञ्ज or smelling instead of actual taking. As to food, flesh food was common to all. But among the vratas of sacrificers is mentioned abstaining from flesh and this subsequently became the lifelong vow of many Brahmins. Not to eat flesh during the month of Śrāvana, the first month of the rainy season, is a custom among Kshatriyas even to this day. The grains used were chiefly rice and yava mixed with curds. Cow's milk

alone was used as being sacrificial and cows were kept in every household. It seems that beef was never eaten except at certain higher sacrifices and only as হলি:মান, cows being considered sacred; and even there, সামসন্ত came into vogue.

The dress of the people was the same as in the Brāhmana period, viz. two pieces of cloth for both men and women. The men had often a turban called उच्छीच and it was usually white as also the two pieces of cloth. A red turban was prescribed for priests who were engaged in performing magic rites and also red clothes (लोहतोष्णीषा लेहितवासस:-Srauta S.). A red turban in modern times became, however, a sign of gentility and only Kshatriyas and Raiputs used it (See our History of Mediæval Hindu India Vol. I). The women, when ordained for sacrifice, had for head dress क्रम्बक्शि of which no idea can now be formed. Silk clothes were considered best and holy, being prescribed for both the sacrificer and his wife when ordained. But the Panjab did not produce silk and Bengal and China alone, as now, were producers of silken cloth. The sity mentioned in S. S. must be imported silken cloth and it has become in modern India a sacred cloth with Hindus along with linen and woolen. The people generally kept a tuft of hair on the head called शिखा or चुडा: but some had heads clean shaven. The words यवनमुण्ड and कम्बोजमुण्ड which are given first in the gana under II,1,72 Panini, show that Greeks and Tibetans were even then shaven-headed.

A great many sutras of Panini give the surnames, as we may now call them, that were current

among Brahmins and Kshatriyas. Brahmins used gotranames as surnames and Pānini gives many rules for their formation. The Pravara stocks such as affire. मार्गन नासिष्ठ &c. were also known but not used; but under these, the gotra-names some of which were often the same in different Pravaras were used with some differences. Thus किवबिधादांगिरसे (IV 4, 107) provides that a Kappi-gotra man, if he was an Angirasa, should be called काप्य: if not कापेय: similarly बोध्य was an Angirasa distinct from बोधेय a Vasishtha. The Kshatriyas took names from the peoples (IV 1,168) or some ancestor. मर्गात्त्रेगते (IV 1,191) shows that भागीयण was a त्रेगते but अर्ग was other than त्रेगते, ऋष्यन्धकदृष्णिकरूप्यन्य (IV,1,114) brings together Brahmins and Kshatriyas, the अन्यक the gras and the mes being Kshatriya tribes. There was a difference in the form of the surname from गोत्र (which is fitly defined by Pānini as पौत्रप्रश्रुवपत्यं गोत्रम् and thus meant descendants from grandson downward,) and of the name derived from the father only. We thus see how the modern practice of giving a man's name, his father's name and his family or gotra name is very old.

Pāṇini II 4, 65 shows that certain ancient gotra names in the plural meant descendants. These gotras are अत्रि, स्य, कृत्स, बसिष्ट, गोतम and अंगिरस; thus अत्रयः (Atris) and अगवः Bhrigus would mean any descendants but आत्रेय and भागेव would mean a son of Atri and Bhrigu. Similarly among eastern peoples and Bharatas the plural meant descendants. The Kāśikā instances अभिष्टाः

and अर्जुनाः as meaning descendants of Yudhishthira and Arjuna; but Ārjuneya meant a son of Arjuna.

With regard to trade and imports, we have the sūtra. उत्तरपथेनाहतं च (V 1,77) of Pānini added to by Vararuchi in the Vārtika वारिजङ्गलस्थलकान्तारपूर्वपदाद्वपसंख्यानम् . This shows that in Panini's days imports chiefly came from the north i.e. from Afghanistan, Persia, Chinese Tur-, kestan and Tibet, while in Katyayana's days, under the rule of the Nine Nandas, imports by river and by jungle, land and forest routes were added. These river routes were the Ganges and the Mahanadi, the land routes were from Malwa and Kathiawar, the forest routes were through the Vindhyas and the jungle routes were from the treeless tract of Rajputana. A second Vārtika adds अजपथरांक्रपथ : the first indicates mountain routes fit to be used by sheep only. And a third मिरन-मधुकयोरण् स्थलात् mentions two imports Mahua and Maricha brought by land. In वंशादिगण of Pāṇini, we have several products mentioned which were brought from forests even in his days viz. वैश, कुटज, बल्वज, मद्य, अक्ष, स्थूणा, असमन, इक्षु, खर्वा ; it is to be noted that मद्य (liquor) and হয় (sugarcane) were forest products.

Cultivated fields were not described by their superficial measurements such as Nivartana or Bīghā, but by the seed required for them; thus a field for which a प्रस्थ of seed was required was called प्रास्थिक, or a द्वीण, देशिक (तस्य वाप: V 1,46 Pān.). This method of measuring fields for taxation was in vogue in hilly tracts eventill the British rule. Among corns grown was one that ripened within sixty days and was called षाष्ट्रिक (V 1,80 Pan.). आढक, आचित, पात्र were other measures of weight or capacity besides द्रोण and प्रस्थ (V, 1,53).

People travelled generally on foot; but there were horses also and chariots drawn by bullocks, mules or horses for travel and draught. The importance of chariots prescribed as Dakshinā in Śrauta Sūtras can thus be understood. An aradica was much prized as it travelled fast and carried much weight. And mules were to be had in plenty in the Panjab which was then the home of Aryan civilization and of Śrauta sacrifices, though it is not so now.

The people generally were agriculturists and this life is reflected in such common words as आयतियन, छ्नयन, छ्यमानयन, खल्यन "corn standing, corn cut, corn being cut, corn in the threshing place." The chief corn seems to be Yava (यनोस धान्यराजोऽसि) a rough kind of wheat which indicates that the Panjab and the Sarasvati region were still the principal land of the Aryans at this period. These agriculturists were chiefly Vaisyas who were called अर्थ. Pāṇini gives अर्थः स्वामिनस्ययोः (III 1,103); and in an agricultural country, the agriculturist is also the lord. The word is Vedic and is derived from the root ऋ 'to go' from which Ārya is also derived which denoted all the three higher classes.

It is important to note that among the desires with which sacrifices were performed, प्रामहाम, प्रशास and पर्का were the usual ones. As stated before, cattle and progeny were valuable in an agricultural country. But

- प्रामुद्धाम indicates that whole villages were prized by the Arvans. This either refers to the obtaining of new villages entirely for settlement by a prosperous family or to the settlement system then existing and continuing to this day by which headship of villages was a position of influence. It could be granted by kings or obtained by purchase. We have already noted that these Grāmanis, mentioned even in Upanishads, were an important people and they were also called Sūtas which did not mean a separate intermediate caste as in Smritis. They probably were both Kshatriyas and Vaisyas. Curiously enough, grants of villages (in inam) are not mentioned among the Dakshinas to be given to priests in any sacrifice in any Srauta Sūtra, so far as we remember. It is, therefore, certain that Gramanis were not Brahmins. In the Panjab and the U. P., there are Kshatriya and Jat owners of villages mostly, but there are also Brahmin owners. These were originally not priests but probably followers of the profession of arms.

Turning to commercial and money dealings, we may at once state that the profession of money lending was old and long established. The borrower was called अध्यमणे and the creditor उत्तमणे (Pān. & Smṛi.). We have noted that Yāska interprets मगंद in a Rigvedic verse as meaning क्रसीदिन or one who lives on interest. This profession was looked down upon as creditors were, as always, often oppresive (Sec III p. 110). The Vaisyas and some Brahmins probably even then, followed this profession. The Vaisyas were also traders and sellers of goods as the Gītā gives कृषि, गोरहम and वाणिज्य as the natural avo-

cations of Vaisyas and the agriculturist Vaisyas, the cattle-rearing Vaisyas (like Nanda of Vrindavana in the Bhagavata) and the trading Vaisyas became probably distinct classes. Money was a sine qua non for trade and lending transactions and must have been in use. Pānini mentions many coins and the Srauta Sutras also refer to these coins. Nishka as coin is more than once mentioned in the Śrauta Sūtras for Dakshinā. It was most probably a stamped piece of gold. (See हिरण्यपरिमाणं धने P. VI 2,55 e. g. द्विस्वर्णे धनम्. Hiranya meant both gold and silver). Nishka is twice mentioned in Panini and the lower coins given in निष्कारिद (V. I. 20) are पण, पाद, माष (all mentioned directly in 34), बाँह, द्रोण and पछि. Other words which appear to be coins are गोपुच्छ (19), कंस (25), शर्प (26 शूर्पेण कीतं शौर्पम्-काशिका),* कार्षापण (29) a copper coin, शाण (35) and खारी. (33). Vararuchi adds काकिणी to this Sūtra which thus : appears to be shell-money used later on, कार्यापण, शत, बिशतिक, बिस्त are other words probably meaning coins given in 29,31,32. Coins were struck in Pānini's days (आहत V, 2, 120).

The religion of the Indo-Aryans was still Vedic, Grihya and Śrauta sacrifices being performed by the three higher castes. The sacred fire could be kept and worshipped by (Ś. S.) in every Aryan home. But the Vaisyas had probably ceased to do so and had generally taken to the path of Bhakti and had thus

^{*} Perhaps these coins were stamped with myes and and; but what is the and snot?

descended to the level of Sudras and women who could? not perform Vedic sacrifices. Hence the propriety of the line in the Gītā श्लियो वैश्यास्त्रथा श्रदा : &c. Nay many Brahmins and Kshatriyas also had ceased to keep fire and the Gītā also speaks of two classes of Brahmins and Kshatriyas, the pious Brahmins (ब्राह्मणा: पुण्या:) and the Vedic Kshatriyas (राज्येय:) who still followed the sacrificial cult of the Vedas and others who were lax like the मागघदेशीय ब्राह्मण mentioned in Śrauta Sūtras. The former particularly exulted in performing the higher Srauta sacrifices, the Soma sacrifice being most sumptuously celebrated. We can understand how the Gita belongs to this period of the predominence of Soma sacrifice performed for the attainment of Svarga, when it specially refers to them in the verse त्रेविया मां सोमपाः पुतपापाः यहैरिष्ट्रवा स्वर्गतिं प्रार्थयन्ते॥. The three Vedas are mentioned here not because the fourth Atharvaveda was not known (IV 3,120 P.), but because it was concerned chiefly with magic and mundane purposes.

The Upanishadic doctrine of Sanyāsa was also in the field and many Brahmins and Kshatriyas took to Sanyāsa and Tapas by retiring from worldly pursuits and living in forests. These also followed in one way the Vedic religion, as the Sanyāsāśrama and the Vānaprastha Āśrama were now recognised by it and a few Aryans of the three higher classes lived as recluses in forests.

The Sūdra, though admitted to the Aryan society, could not perform sacrifices nor take to Sanyāsa or Tapas. To this time belongs the story in the Rāmāyana.

that Rāma punished with death a Śūdra who took to Tapas. Buddhism naturally came as a revolt after this and threw open Sanyāsa and Tapas to all. Brahmins who led a religious life were exempted from taxes and sometimes others than Brahmins pretended to be so to obtain this privilege. The sūtra of Pāṇīni VI 2,67 is instanced by दासीबाह्मण and भवबाह्मण. It is inexplicable why मगमदेशीय Brahmins were stamped as degraded. In magic rites Dakshīnā was to be given to these Brahmins only (see Ś. S.). Probably they worshipped fiends like the Satanists of Europe.

The common people, the women, the Sudras and many Vaisyas followed generally the religion of devotion by worshipping Vasudeva and other personal gods. Idolatry was probably well established among these people, as Pānimi speaks of the idols of Vāsudeva and We have already seen that even in the religion of sacrifice, an image of Mahāvīra made of mud brought from a Valmika or a pond was worshipped. (This perhaps is the precursor of the later practice. even now subsisting, of worshipping idols of Ganapati made of clay every year in Ganesha Pūjā days). It can not be definitely stated if there were temples wherein idols were permanently installed and worshipped; for we have not come across any mention of such temples in Vedanga works. But non-mention leads to no inference where mention is not necessary. Temporary sacrificial sheds were erected for higher sacrifices which may be called fire temples. Their consecration was made with great ceremony and many public rejoicings. It is

difficult to say whether the linga worship of the Non-Aryans referred to in the Vedas had been by this time accepted by the Aryans as the worship of the Vedic god Rudra, though a separate sacrifice to Rudra by the recitation of the Yajurvedic Rudradhyaya called Satarudrīya had come into vogue in the time of the late Kātyā. S. (Sec III p. 57). The identification of Vishnu with the highest Brahman had already taken place in the Upanishads and according to the cult of sacrifice, Vishnu was sacrifice itself. But it is alsonot quite certain if the identification of Shrikrishna with Vishnu had taken place by this time. The Gītā identifies Srikrishna with Brahman and with both Sankara and Vishnu as Vibhūtis of God. The theory of Avatāras developed hereafter and the Panchrātra and Nărāyanīya cults finally represented Vāsudeva as an Avatāra of Vishnu. These two deities, Šiva and Vishnu, became the two prominent gods of the Indian people hereafter; and thousands of temples were built to themprobably even before Buddha. We do not also findany mention of Devi-worship in the Vedanga works. though, as stated before, non-mention leads to no inference. The Kena Upanishad mentions Umā Haimavatī not as a goddess and the Bhagavadgītā among female deities mentions only कीर्ति: श्रीवीक्च नारीणां स्मृतिमेधा धृति: क्षमा. Yaska mentions many female Vedic deities, but not any Puranic ones.

The people generally were thus religiously divided into two sections the Aryans and the Sūdras (श्रुप्तरेम् II 2,31 Kāśikā) and they often abused or reviled.

each other. It is interesting to note that the consecration of sacrificial sheds was accompanied specially by a mock quarrel between a Sūdra and an Ārya, the latter worshipping fire and the former not. The lowest grade of the Sūdras worshipped fiends and demons and they are referred to in the Gītā. The difference between the higher and lower classes is noted by the Gītā in the verse यजन्ते सात्त्वका देवान् यक्षरक्षांसि राजसाः । प्रेतान् भूतगणांश्वान्य यजन्ते तामसा जनाः! Manes were also worshipped by many (पितृन्यान्ति पितृवताः).

Lastly several sūtras of Pāṇini give us hints about the food, apparel, avocations &c. of the people. Thus V. 2, 7-9 speak of सर्वेपथीन रथ a chariot which can take all paths, सर्वेपत्रीण सार्थि a driver who can drive all animals, सर्वोत्रीन भिद्ध a Sanyāsin who eats all kinds of food, आप्रपदीन पर a scarf which covers the body upto the ankle, अनुपदीन उपानत् a shoe that fits the foot. V. 2, 71 states that a country inhabited by Brahmins living by arms is called ब्राह्मणक. The Sūtra of Pāṇinī, though treating of grammar, is a mine of information on the general condition of the people in his time.

From the various facts above set forth, it will amply appear that the Indo-Aryans were, in the Vedānga period, a highly advanced people with ordered kingdoms and communities, living in walled towns (नगरमहिन, आ-कारमहिन Pan. VI 1, 26 गण), and with councils assisting kings, with intellectual pursuits resulting in such finished works as Pāṇini's grammarand in philosophical treatises like the Bhagavadgītā. They had advanced in mathematical astronomy and also in the knowledge of

metals, using gold, silver and copper coins of various weights. Industry and agriculture flourished and trade by boats from the eastern and western seas was carried on with many distant lands. Fine arts had also progressed; music was studied, with stringed instruments like Vīnas and dramas were acted, there being even works on actors. Rules for the building of altars had been laid down on the basis of geometry and arithmetic. Yet the question whether writing was known in the days of Panini is a topic of controversy among scholars. Goldstücher held that "writing was known to Indo-Aryans from various sutras of Pāṇiṇi such as उदाता-नदात्तरस्विरितोदय. The roots लिए and लिख show that words were painted as also inscribed." If the Chaldeans knew inscribing on bricks, at least two thousand years before Christ, it is no wonder that the Indo-Aryans knew writing in the Vedānga period. The Vedas were no doubt taught from mouth to mouth, but other works were written down. Indeed we think that Pānini could not have prepared his gapas or lists unless he could note down words as they were found. He could not have kept them stored in his mind. The material on which writing was inscribed was Bhūrjapatra, as stated already and Bhūrja leaves could be had in plenty in the Himalayan regions. consequently in Sanskrit means a letter, as paper in English has come to mean a disquisition written on paper. Such leaves strung together were called a grantha properly enough and grantha in the sense of a work is used even by Pāṇini (कते प्रन्थ).

GENERAL APPENDIX.

I NOTES OF Y. V. TALAVALKAR OF POONA on Sec. I with our remarks thereon.

(1) P. 3. "The ancient Indo-Aryans had a system of chronology. The Manvantara system counts time from Manu's being saved from the deluge. This system was known all the world over, Manu or Noah being treated as the saviour of the human race. Before this system, different forms of Yugas were in vogue, of four, five, ten &c years. The Manvantaras are described in the Purānas iu detail."

The determination of Vedic dates from Puranic accounts of Manvantaras is an impossibility. These are differently interpreted by different scholars. The Puranic accounts of kingly genealogies are also unreliable, the original genealogies seen by Megasthenes being lost. The modern Purānas give imaginary ones, as their total differs from the total in the short summary given by Megasthenes. Thirdly, Manvantaras are a fabrication of astronomical Siddhāntas which are all later than 200 B. C.

(2) P. 47 and 55. "The प्याप्त must be taken to have preceded Vyāsa. It was recited by शक्त or शाकल्य and it omits some of the verses in the Rigveda as now recited. Had Śā.kalya come after Vyāsa, he could not have omitted these verses. Again गालन, author of क्रम्पाट, according to the Purāṇas, lived in the reign of Brahmadatta, a contemporany of Pratīpa, father of Santanu. He too, therefore, preceded Vyāsa. The above शाकल्य counted every Pada and hence we have शाकल्य accounted every Pada and hence we have शाकल accounted every Pada accounted every Pada and hence we have शाकल accounted every Pada acco

mantras are omitted in qqqqz is difficult to solve; for the present Sanhitā is known as of Śākala Śākhā. Probably when Śākalya enunciated his qqqz he thought these mantras to be spurious. Again the idea of reciting a qqqz can only arise after the mantras had become difficult to be understood owing to change in language. It is also possible that when Śākalya enunciated his qqqz, these mantras were not found in the compilation made by Vyāsa and were added subsequently by some one, like the Khailikas.

The following mantras only, included in the Rigveda Sanhitā always, have no प्रवाट. They are, however, commented on by Sāyana:—VII 5 ,12 (ज्यान्वकं यजामहे from यज्जवेंद्), X,20,1, X 120, 10 and X 190 (कर्तच सत्यं स्क.).

(3) P. 84. "The words Brāhmaṇa, Rājanya, Vaisya and Sudra are not indicative of castes but are নাইন forms showing occupation. For these words do not occur elsewhere in the Rigveda. Brāhmaṇa thus is from সন্ধান (mantra)"

This is an ingenious guess as ব্যানন also seems, from ব্যানন, to be a collection of kings and Vaisya, of বিহা or settlers. But how is হাই a নাইন and what is its meaning?

(4) P. 110. "The Vāyu Purāna gives the following information about Sāmaveda. This Veda was taught by Vyāsa to his pupil জীমিন, he taught it to his son দুক্রন, he to his son দুক্রন, who made 500 Samhitās and taught them to his pupil গীঘিততা who taught them to his disciples জীনামি, কুথুমি, কুহাজিন and জানজা. These Sāmans are called সীম্বীভ্য, and are distinct from the মাভ্য or কার্ন Sāmans of দ্বিত্যনাম কুন."

The Purana brings together known authors on Samaveda and the supposed 1000 Sakhas of it, in this imaginary story.

- (5) P 137. Kalapas are the same as harqifis." Why?
- (6) P. 140. "In Pāṇini's time, Āraṇyekas were not looked upon as separate from Brāhmanas."

TI THE KHAILIKA ALIAS PARIŚISHŢA HYMNS OF THE RIGVEDA.

We have already noted in App. I that there are certain other hymns of the Rigveda on which there is no padapatha. They are called Khila or Khailika alias Parisishta which may be rendered by 'remnant'. They are not given together at the end like an appendix in modern books but are given at different places throughout the Rigveda in some written books only. They are, however, not usually given in printed books; nor has Sāyana commented on them. But they are almost always learnt by heart by Vaidikas. They have accents which Max Muller says are not proper, and they are omitted in many Mss. We give below a list of them supplied to us by Govindabhat Phatak, a noted Vaidika of Poona, both from a manuscript copy and from memory.

No.	Ash taka	Adhyaya	Varga	Pratika or beginning	No of verses
1	II	5	16	मा विभेर्न मरिष्यसि	8
2	"	8	12	भद्रं वद दक्षिणनः	6
3	IV	2	25	जागर्षि स्वं भुवने जातवेदी	1
4	,,	3	3	स्रकान्ते तृणान्यमा	1
5	,,	3	7	स्वस्त्ययनं ताक्ष्यं	2
6	,,	4	29	वर्षन्तु ते विभावरि	1
7	?7	4	34	हिरण्य वर्णा हंरिणीं (श्रीस्त्रक्त) 16
8	17	7	20	चक्षुश्र भोत्रंच	3
U	,,	8	4	स्रकान्ते तृणान्यमा	11
10	\mathbf{v}	3	30	शंवतीः पारयन्त्येते	6
11	,,	4	2 2	स्वप्रस्वप्राधिकरणे	11
12	"	7	4	उपप्रवद मंद्रकि	1
18	VII	21	9	यावमानीः स्वस्त्ययनीः	20
44	.,	5	28	यत्र तस्परमं पद्	5
45	VII	[3	6	सिलाबिते स्वरिते	or of the work
16	. "	. 3	29	अविवना नन नर्गानि	and the st

₩o.	Ashtaka	Adhyaya	Varga	Batika or beginning	No of verses
17	VIII	5	23	असी या सेना महतः	2
18	,,	6	2	ह विभिरेकेस्वरित	1
19	"	7	14	आरात्रि पार्थिंदं रजः	25
20	"	7	16	अर्वाञ्चमिन्द्रममुतो (यजुर्वेद) 1
21	"	7	16	आयुष्यं वर्चस्य	11
22	"	8	9	मेधा मह्ममाङिगरसी	9
23	"	8	42	नेजमेष परापत	3
24	,	8	45	अनीकदन्तमुतये	1
2 5	,,	8	49	संज्ञानपुरानावदत्	9 or 14

It may at once be said that these are additions most certainly made after Vyāsa the compiler of the Rigveda and Śākalya the enunciator of the Pada-Pātha. The Vālakhilyas are, however, earlier than Sākalya and later than Vyāsa as they have been separated into padas. Max Muller has shown in his edition of the Rigveda that these Parisishtas are older than Kātyāyana who does not include them in his सर्वानकमणी as also Saunaka who mentions them in his अनुवाकानुक्रमणी. They are, of course, not counted by him in the number of hymns and of padas. of these verses like तस्त्रवारायणीमहे are found in the Atharvaveda and in Śrauta and Grihya Sūtras. We think that their being given in different places indicates that they were believed to be seen by those Rishis after or in whose hymns they are inserted. They are certainly allied to them in matter. X 75 is a hymn to the rivers and the Khailika सिनासिने सरिने अब संगय &c. referring to the confluence of the white Ganges with the dark Jumpa naturally comes after इम् मे गंगे प्राप्त &c. The first remnant hymn is inserted at the end of the first mandala and the last (25) at the end of the Rigveds itself, the matter of it संज्ञानमञ्ज्ञानवन being allied to the matter of the last sukta and its last verse समानीय आकृति : &c.

Max Muller, in his edition, has given 32 Khailikas while Govindabhats list gives 25 as also Ganapat Krīshvāji's edition which also notes the place where each khailika is inserted. On comparison we find Nos 1,9,10,15,18,20 (सम्पीरतद्पसो &c. is here given) and 29 of Max Mullers edition to be additional sūktas (29 हिमस्य त्वा not given by G. K. edition is, however, accepted by Govindabhat, though it is not in his list). There are additional verses also, added still later in these remnant hymns, the most notable being 13 verses added at the end of the 8th of Max Muller called श्रीस्क. These clearly are later additions, for they come after the finishing verse यः श्राच : प्रवते अपन

The language of some hymns is post-Vedic and one hymn mentions even Kapila. The hymns Nos 8 and 9 given by Max Muller and omitted in our list are to Siva and Krishna which are plainly spurious, the latter containing the line कृष्णाय गी-पिनायाय. The majority of the hymns and verses are, however, in Vedic language and style. यज सोमेश्वरो देवः यज पाची सरस्वती यज गंगा च यम्रना probably describes Prayāga. Is there Somesvara there? जनमेजयस्य सर्जात आस्तीकचचनं स्मर and यो जरत्काकणा जातः remind us of the Bhārata which probably takes these verses from here. यस्यां हिरण्यं प्रमूतं गांची वास्योश्वाच् विन्त्ये पुरुषानहम् embodies the Indo-Aryan conception of riches (7). काळिको नाम सर्षः यम्रनाञ्डदेह सो जातो यो नारायणबाहनः (11) is a prior version of the story of Krishna in Harivamsa.

III THE VEDĀNGA OYOLE OF 5 YEARS.

This cycle is certainly old, as the names of the five years are mentioned in the Taittirīya Brāhmaṇa III 4 and also the Vājasaneyi Sanhitā XXX 18 (Sec. II p. 48). These are, of course, their later portions; but the cycle must be older still as two extra months named Sansarpa or Malimlucha and Anhaspati

are found in the Taittirīya Sanhitā which can only appertain to the cycle of five years. Mr. Y. V. Talavalkar thinks that there was previously a four years' cycle with three years of 360 days and the fourth of 381. He has not given the proof of this. But this is probable as the Taittirīya Brāhmaṇa (I 4,10) mentions the names of four years only and their lords. The extra month is certainly older as Adhimāsa is mentioned in R I 25, 8; and is likened to the hump of an ex in the Tait tirīya Brāhmaṇa III S. 3. The ancient Rishis must first have tried to equate the solar with the lunar year, in other words. the seasons with the full moon and new moon months, by adding 21 days or one month after 3 years and finding the inequality still remaining, by adding 2 months in five years.

IV DR. V. G. RELE'S NEW EXPLANATION OF VEDIC DEITIES. (Sec I pp. 74-81)

Mr. V. G. Rele L.M.&S; F.C.P.S. whose new interpretation of the Bhagavadgita we have already noticed, has suggested a new explanation of Vedic deities also on the physiological basis. Dr. Rele has studied the Rig-Veda deeply and with his wonderfully imaginative power and his intimate knowledge of anatomy has evolved the theory that the Vedic deities represent the several centres of activity in the nervous system of the human body. I have had the privilege of reading in manuscript his book expounding this theory and I am sure that when this book is out, it will take the learned world by surprise. He has not only accounted for the various attributes of each Vedic deity but has also shown how the various legends about each god given in this highly poetical work of the ancient Rishis can be explained.

Even in the time of Yaska, the Vedic deities had become a riddle. Some teachers thought that they were powers of nature looked upon as gods; others that they were ancient kings. Thus Vritra was supposed by some to represent a cloud; by others to be a son of the Asura Virochana. Modern Vedic scholars generally explain the Vedic deities and the legends connected with them on an astronomical basis. They explain these legends as poetical fancies of the ancient Rishis suggested by particular appearances in the starry regions. again believe that these deities represent but the Sun in its different aspects seen in the Arctic regions. Yaska thought that there were three deities only viz. Sun, Wind and Fire; and all other deities were only their different positions. But it is patent to all that these different theories cannot satisfactorily explain all the attributes of the Vedic deities described in the Rigveds, nor all the legends in connection with them found therein. Thus, as pointed out by Dr. Rele, the name Rodes in the dual, defies proper explanation. Yaska gave different meanings; and many following him take it as heaven and earth (यानावादिन). But in many hymns of the Rig-Veda, Rodasi is mentioned along with courth and sky separately (III 54,4, VI 79,41, X 88,3) and there Rodasi must meen two heavens. Now in the outer world there is but one heaven. The idea of two heavens, however, seems to have been suggested by the two hemispherical brain vaults placed side by side, as well explained by Dr. Rele in his book. The Rishis in their sacrifices must have studied animal anatomy and even human dead bodies and they saw minutely both the inner world and the outer world and thought

them to be alike. We may next mention the next most troublesome Vedic deity viz. the two Asvins. Yaska. as usual, suggests many explanations. The astronomical explanation that they are two stars or two planets (Venus and Mercury) fails: for these do not constantly appear together. The Asvins are always said to appear in the early morning before dawn. They are physicians. And they succour men when foundered at sea. It is almost impossible to suggest an explanation which can bring in these attributes. Dr. Rele's physiological explanation is, therefore, worth noting. Other troublesome deities such as Ribhus and Pūshan are also explained in this theory of Dr. Rele. Indeed his great merit is that he has collected together all the legends connected with each deity found in the Rigveda as also all attributes and has explained them on the theory that the Vedic deities represent the different centres of activity in the brain and the spinal cord of the human body. It is possible that the Vedic seers knew the human nervous system well and looking upon the outer world as a replica of the inner world. described both in the same fashion. This theory of Dr. Rele will certainly be carefully scrutinized by the learned world when it is placed before it. The German Pandits especially who are both good Vedic scholars and medical experts will study it deeply and pronounce their valuable opinion upon it. In the meanwhile, we think the theory to be so ingenious and thorough-going, that we feel it to be our duty briefly to notice it in this History of Sanskrit Literature, even before Dr. Rele's book is printed and published.

V DATE OF BHAGAVADGĪTĀ, Sec. IV pp. 34-46.

A further argument in support of the date we have assigned to the Bhagavadgītā may be found in बेदानां सामवेदोऽस्मि (X20). Srikrishna was probably a Samavedin, as in the Ohhandogya he is described as a pupil of Ghora Angirasa कृष्णाय देवकीपूत्राय पाह (Sec. II p. 192). But the preeminence of Samaveda as the highest Veda also belongs to the Brahmana and Vedanga periods. It was a Veda recited by gods. T. B. says that all light was derived from the Samaveda (Sec. II p. 37). The Pariplaya, described in the Srauta Sutras and Brāhmanas, provides that when the Sāmaveda was recited, gods were to be invited and learned Brahmins in the Vedas represented gods (Sec. I. p. 197 and III). But this position among the Vedas was lost subsequently by it. As noted by Telang in the preface to his translation of Anugītā, Gautama Dharmasutra provides that Samaveda should not be heard in the house. Samavedins are now treated as almost fallen. The reason appears to be that Samaveda recitation was necessary at the time of burning the dead body of a king or a householder and became inauspicious as a funeral rite. Even the Mahabharata depicts that the loud chanting of Samans distinguished the ceremonial burning of Bhishma's body. This lower position of the Samaveda was thus established by about 500 B. C. The Gītā must be taken to belong to the Śrauta Sutra period_ in other words, to about 1000 B. C. at the latest.

VI MAP OF VEDIC-CHIEFLY PANINIAN-INDIA

In preparing the Map of Vedic India hereto appended, we have had to contend with many difficulties. So many countries, towns and villages are mentioned in Pāṇini's sūtrasand gaṇas and in Kāśikā by way of illustration and so few of these can be identified now, that we are at a loss to locate most of them on the map. Secondly, the situation of many has not.

been indicated. Pānini's work being on grammar and not on geography, though some of them are mentioned in the Maha-Thirdly, many peoples and towns have disappeared bhārata. since Panini's days. The map, therefore, does not fully represince Pānini's time. But we give here lists of countries, towns &c. mentioned in Vedic works from the Sanhitas down to Yāska and Pāṇini, so far as we could collect them, for the curious reader. The lists cannot of course claim to be exhaustive. It must be added that the ganas as recited in Kāśikā and the Sidhanta-Kaumudi differ; the latter contains more names and also gives different readings. Kāśikā again in giving illustrations mentions names of towns which could not have been in existence in the days of Panini such as Pataliputra and hence one must take only those names which are actually mentioned in Panini or Yaska as undoubtedly existing in the Vedanga period. Lastly, more than a hundred names of towns are mentioned in the 17 ganas mentioned in Pan, IV 2,80 which we do not give here for fear of inordinate and unnecessary extension of lists.

RIVERS

We will first give the rivers of India mentioned in Vedic works. In R. X. 75,5 are given the rivers of India known in Rigveda Sanhitā times, from east to west in order (Sec I p. 89.) Their names with subsequent equivalents down to the atime of the Greeks and modern days are as follows:—

U. P., DELHI AND PANJAB

- 1 Gangā (Ganges) 2 Yamunā (Jumna)
- 3 Sarasvati (Sarsūti)
- 4 Sutudri (Sutlej), Gr. Hesidrus
- 5 Parushni (Ravi) also called Iraveti, Gr. Hydractet.
- 6 Asikni (Chenab) modern Chandrabhäga, Gr. Abesines
- 7 Maradvridha (not identified)

- 8 Vitastā (Jhelum), Gr. Hydaspes
- 9 . Arjikiyā (not identified). Yāska gives Vipāt as another name of it, but this is probably wrong. Yaska gives Urunjarā also as another name of Ārjīkivā
- 10 Sushomā (not identified. Yāska looks upon it as Indus)
- Sindhu (Indus) praised in R. X 75, 11
- 12 Rasā
 13 Śvetyā (Swat)
 14 Kubhā (Kabul) R.V53,9
 15 Kramu (Kurrum) ,,
- 16 Gomatī (Gomti)
- 17 Vipāśā R III 33,1 and P. IV 2,74. (Bias) Gr. Hyphasis. R. speaks of Vipāśā and Satadru together and they combine first. This shows that Yaska is not right in looking upon Asikini as Vipašā.
- Sarayū in Oudh R.IV 30,18, V 53,9. X 64,9 mentions 18 it along with Sarasvatī and Sindhu.
- Śarāvatī given in Kāsikā as dividing east from north 19 as conceived by Pānini (not identified).
- Sadānirā in Behar (See II p. 15) mentioned in S. B. 20
- 21 Varnu P. IV 2,77 η. (not identified),
- 22 Suvastu P IV 3,93.
- 23 Drishadvatī (S. S.)
- Rathasthā VI, 157 η. 24

We go on to give a list of the countries known in Vedic times. There are very few countries mentioned in the Samhitas, though many peoples are mentioned like Bharata, Yada, Anu, Dhruhyu, Puru &c; but these were not names of countries yet. In the Brahmanas including Upanishads, we have Kuru, Panchala, Kasi. Videha, Madra, Gandhara and Andhra mentioned. Baudhayana S. S. mentions आरड, भोचार, साहाइ. कारकर and som as countries not to be visited by Asyans. Panini's grammar, however, contains many names of countries and their situation whether east, middle or north can be tolerably known. There are more than a hundred names in the ganas recited by Pānini and Kāšikā adds many in illustration of Pāninis sūtras. The latter not being always trustworthy, we add π , and π , to indicate their source. The list is arranged alphabetically and names given in the map are marked.*

Abhisāra IV 2,124 का. Aishukāri IV 2,54 η Aindravakra IV 2,126 কা. Ajamidha IV 2,125 কা. Ajaskanda P, Andhaka IV 2, 114 *Andhra (A.B.) Anūpa IV 2,133 η. Anushanda .. Āraṭṭa (Bandh.S.) a general name for Panjab countries. *Aśmaka IV1,173, VI 2,37л. Asura V 3,117 η. *Avanti IV 1,176, VI 2,37 n. Andarāyana IV 2.54 η. *Bālhika V 3,117η. IV 1,154π. Bharga IV 1,175 *Bharata IV 1,178 η, &c, P. Bhaurikāri IV 1,154 η. Bāhlīka Chakrāvarta IV 2,126 羽. Chāndrāyana IV 2,54 η. Ohāpayata *Chedi IV 2,115 Chinti VI 2,37 n.

Chitraratha II 2,31. Dakshināpatha IV 2,127 η. *Darada IV 3,93 л. Dārukachchha IV 2,126 का. Darva IV 2, 125 का. *Daśārha V 3,117 η. Dāsamitra P. Dhārteya IV 1,178 η. Dhaurteya Drākshāyana IV 2,54 η. Gandikā IV 3,93 η. *Gāndhāra IV 2,133 η. IV 1,169 Brih. B. S. *Gauda P. Haihaya IV 1,111 η. Jambu IV 2,125 奪1. Jyābāneya IV 1,178 η. *Kachchha IV 2,133 *Kālakūta IV 1,173 *Kālanjara IV 2.125 47. Katūtara IV 2,133 η. *Kalinga IV 1,170 *Kamboja IV 1,175 Kandagnika IV 2,126 71. Kaneya IV 2,54 m.

Kapiśa IV 2,99. Karusha IV 1,178 η. Kāśī IV 2,115 *Kasmīra IV 1,178 η. *Kekaya IV 1,178 л. Khāndāyana IV 2,54 η. Kikata (Rigveda). Kishkindhā IV 3,93 η. *Kshudraka IV 2, 45 η. *Kunti IV 1,176, IV 2,37 *KuruIV 2,81का-&c.IV 2,37 Madhumat IV 2,133 η. *Madra IV 2,131, IV 3,13. *Magadha IV 1,170 *Mālava IV 2,45 η. *Nishadha IV 1,142 朝. *Pānchāla IV 2,81 &c. Pāraskara VI 1,157 *Parsu V 3,117 *Paundra (A.B.) *Piśācha V 3,117 л. Pratyagratha IV 1,175 Pulinda (A.B.) Ranku IV 2,133 ग. Rohita (Tāndya B.Sec. II p.72). Saikavata IV 2,54 7. Sailūsha IV 2,53 π. *Salva IV 1,178 η· IV 2,135, Yaudheya IV 1,175, V 3,107 VI, 2,133 η. &c

Sankāsa IV 2,80.

Sārasyāyana IV 2,54 л. Satvata V 3,117 7 Saukreya | IV2, V3 178 л. 117 л. Śaubhreya 🕽 *Sauvīra P. &c. *Sindhu IV 2,113 η &c. Šitikaksha VI 2,37 η. Sūramasa IV 1,170 *Śurasena IV 1,177 л. IV 1,170. *Surāshtra IV 2.37 ग. Susthāla IV 1,178 ग. Susvāta IV 1,178 η. *Trigarta IV 1,111 IV I, 178 η. Udasthāna IV 1,86 л Udumbara Urasa IV 1.178 π *Uśīnara (А. В.) IV I, 178 л. *Vaideha IV 1,178 л Vaikayata IV 2,54 η. Vānijyaka *Vanga IV], 178 η. Varna IV 2,133 Vāhīka IV 2,47 (general name for the Panjab). *Vriji IV 2,131 Vrishni IV 1,114 Yugandhara IV 1,99 π, IV 2,131

A similar alphabetical list of towns is given below. As stated already, many unimportant towns have been omitted, chiefly those given in gapas and Kasika.

Anakasthali IV 2,127 47. * Anarta Arishta IV 2,80 η. Aśman Aśmara Aśoka Barbara Bhojakata (east) I 1,75 का. * Champā IV 2,82 л. Dattamitrī(Sauvīra)IV2,16本「 Darva IV 2,97 η. Devadatta I 1,75 零 (north) Dhuma 1V 2,127 Drākshīprastha VI 2,87 η. Enīpachana (east) I 1,75 का. Garta IV 2,127 n. Gaudapura * Gayā IV 2,82 ¶ and Yāska Gonarda (east) I 1,70 का. * Hāstina VI 2,101 * Indraprastha IV 2,87 π. Jambu 1V 2,82 η. Kairamedura IV 3,93 π. Kākandī (east) IV 2,76 本ī. Kāndavārana IV 3,93 л. Kapila Karavīra IV 2,80 π. Karkipraetha VI 2,37 π. Karnakoshtha IV 3,93 π. Kāsapari IV 2,97 л. Kansambi IV 2,97 π. Khādiri Kinnara IV 3,93 s.

Kroshtukarna., Kuchavara IV 3.94 Kundaprastha VI 2,87 st. Lankā IV 1,158 r. Madrakūla IV 2,127 η Mahī IV 2,97 η Mahakīprastha IV 2,87 π Māhishmatī IV 2,96 π Māhishasthali IV 2.127 π * Mākandi (east) IV 2,76 का Majjāli IV 2,127 π. Mārdeva VI 2.101 * Mathurā IV 2,82 π. * Māyā IV 2, 97 π. Nandipura (East) का. Pampā IV 2,82 π. Phalaka VI 2,101 Plaksha Prasravana (S. S.) Pota IV 2,97 π. Pushkara IV 2,82 π. * Rājagriha IV 2,127 π. Romaka IV 2,80 π. * Śākala IV 2,117 η (?) Sānkāsya IV 2,80 म * Śalātura IV 3,94 Śālmali IV 2,82 π. Sansphāya IV, 2,127 ग Sasudana ,, Sātrājita Sinhakoshtaka IV 3,93 m Sivadattapura (east) #1. Sravasti IV 2,97 n Srigalapura IV 2,137 m

Sinhanagara (east) का. * Takshasilā IV 2,82 3,93. Tamraparni IV 2,82 π Tūdi IV 3,93. Udumbara IV 1,99 π * Ujjayini IV 2,82 η Urasa Vaidhūmāgni (Sālva) IV 2, * Virāṭanagara (का .) 76 का Valabhi IV 2,82 π ∇ algu

Varana IV 2.82 * Vārānasī IV 2,97 m Variya IV 2.127 π Varmatī IV 3.97 Vatsoddharana IV 3.93 π. Videha IV 2,127 η Vinasana (S. S.) Vrikagarta IV 2,137 π. Yakrilloman IV 2,110 π Yugandhara IV 1,99 π.

VII JANAMEJAYA PĀRĪKSHITA - ND DATE

OF BHARATA FIGHT. See II p. 17 and IV p. 5.

There is no mention of the Pandavas in Sanhitas or Brahmanas and Weber as also Dutta thought that they were imaginary beings, "Arjuna being still the name of Indra" (Dutta). The mention of Janamejaya and his three brother's and of their performing four Asvamedhas for expiation from guilt occurring in the Satapatha led Dutta to think that "Janamejava Pārīkshita was, according to contemporaneous testimony, himself stained with the guilt of war". Similarly. the Brihadaranyaka contains a question Where have the Parikshitas goue' and Weber thought that this question showed that something marvellous had happened to the Parikshitas and that "this unknown something was the basis of the legend of the Mahabharata". That these surmises are wrong we have shown at length in our Mahabharata: a criticism (p. 60) and our महाभारतमीमांसा (हिंदी Chap. III.) We would give here our arguments in short as detailed there. Non-mention first, affords no basis for inference, unless mention is necessary. The Vedic Sanhitas and Brahmanas being religious books need not contain a reference to any past historical event or

person. That Janamejaya and his three brothers performed Asvamedhas for expiation of sin as mentioned in Satapatha proves that the Pandavas whose great grandsons they were must have lived before Satapatha. The sin mentioned is a Brahmahatva and can not be confounded with the guilt of war. Drona's being killed in fight does not involve Brahmahatya, as killing a Brahmin warrior who comes to fight and kills thousands by his Brahmastra is not a sin: श्रोत्रियं वा बह्रशतम आतता-यिनमायानं हन्यादेवाविचारयन्. It is true that we are nowhere told in MBh. or in S. B. how Janamejaya committed the sin of Brahmahatyā. But it is unquestionable that the Bhārata fight involved no sin of Brahmahatyā. Thirdly, the question "'Where are the Parikhsitas' does not suggest the idea that their end was terrible. The answer of Yajnavalkya in the Brīhadār, makes this clear. He says "There they have gone where the Asvamedha-sacrificers go, viz., where " &c. Thus the fact of their performing Asvamedha was well-known and sacrificers of Asvamedha, according to Yājnavalkya, went to the highest goal attained by Vedantins. There is in fact praise of Asvamedha involved here.

Lastly, it may be noted that some have suggested that Janamejaya mentioned by S. B. is an ancestor of the Pāndavas, mentioned in MBh. Ādip. There is, no doubt, another Janamejaya who is an ancestor. But he is not Pārīkshita and he has not three brothers named Ugrasena, &c, as mentioned in S. B. in detail. Hence the Janamejaya of S. B. is unquestionably the great-grandson of Arjuna. Arjuna may be Indra in Rigveda hymns; but it is a name properly given to one of the Pāndavas supposed to be born of Indra and the hero of the Bhārata fight which took place after the compilation of the Rigveda Sanhitā and before S. B. was composed about 3000 B. C.

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